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FOUNDATION FOR AMATEUR RADIO

FAR

June 1994

Travel The World With Amateur Radio

FCC Highlights ❋ ARRL Report ❋ VE Exams Schedule ❋ Public Service Report
DX Column ❋ Elmer's Corner ❋ Club Reports ❋ Want Ads ❋ Much More

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Auto-Call is the Official Journal of the Foundation For Amateur Radio, Inc.®

$1.00

THE NEW GENERATION ROTATORS

THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

	The New Generation									Old Generation	
Model/ Specs	Create RC5	Create RC5A	Create RC5B	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200FXX	Emoto 1300MSAX	Emoto 1800FSX	Tenn HamIV	Tenn T2X
Rotate Torque Ft#	43	116	160	37	50	57	143	215	287	67	83
GD2 Kgm2 Ant. Inertia	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Brk. Static Torque Ft#	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load in Tower (8)	10	25	25	11	22	27	27	33	36	15	20
Mast mount	4	5	7	5	9	12	12	15	16	7.5	10
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	65	40	77	80	60	60
Rev. Delay	None	2 sec	3 sec							None	None
Preset	Opt 3	Opt 3	yes	no	no	Opt	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 120V 60Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia	2-2.5 in	2-2.5 in	2-2.5 in	1.2-2.4 in	1.6-2.4 in	1.6-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical max load #	880	1540	1540	660	1100	880	1760	1760	2200	400	800
Rotor wt/#	13	17	20	7.5	9	11	11	13	39.5	24	28
Brake type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center mast clamp	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Special notes	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Pricing (5)	$269.00	449.95	799.00	209.95	399.00	589.00	679.00	1099.00	3272.00	369.95	439.95
With Preset	$379.00	$528.95				$663.00					

Notes
1. Turns Tribander 470# in 35 seconds
2. Variable speed 40 sec max
3. Variable speed w/SCR constant rotational torque at any speed
4. T2X and HamIV have same motor and gear train parts
5. EEB prices as of 5/91 subj to change
6. 120/220 speed transformer
7. 120V normal 220V special order
8. Wind Load in Sq. Feet

THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

CREATIVE DESIGN ROTATORS

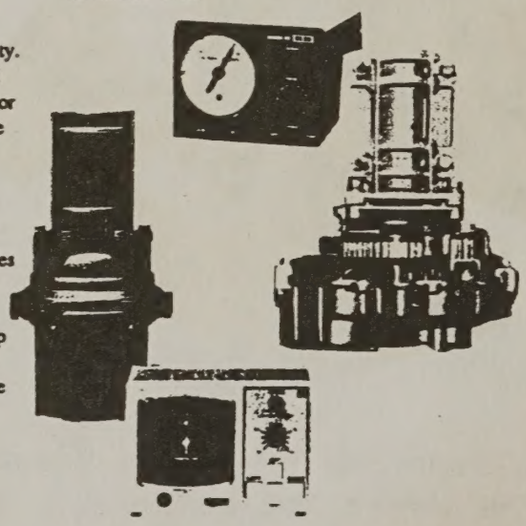
CREATE is serious about long term reliability. The CREATE RC5 series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

ROTOR FEATURES OF RC5 SERIES

* Large strong reduction gear system provides long term reliability during years of rugged operation. * Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions. * Cast and machined aluminum case provide the strength required for long lasting service. * Mast clamp guides for ease of mast installation.

CONTROLLER FEATURES OF RC5 SERIES

* Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees. * Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system. * Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east).* Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD² formula considers your antenna (s) weight, boom and longest element length . The EMOTO sheet is in metric so one must convert weight 2.2lbs= 1kg and length in meters 3.3ft.=1 meter. Calculate your GD² than compare EMOTO GD² spec above.

$$GD^2 = W \times \frac{L^2+B^2}{12}$$

Where: W: weight of antenna (kg)
L: length of longest element (m)
B: length of boom(m)

GD² EXAMPLES: Kgm²

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.

EEB

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Call - Write - FAX - for full detailed flyer
EEB Your Professional Amateur Dealer

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Adams County Amateur Radio Society
Alexandria Radio Club
Amateur Radio Reasearch and Development Corp.
AMSAT - Radio Amateur Satellite Corporation
Anne Arundel Radio Club
Antietam Radio Aaaociation, Inc.
ARINC Amateur Radio Club
Arlington Amateur Radio Club
Baltimore Amateur Radio Club
Baltimore Radio Amateur Television Society
Capita City Amateur Radio Society
Capitol Hill Amateur Radio Society
Carroll County Amateur Radio Club
Central Maryland Amateur Radio Club
Chaverim of the Greater Washington Area
Columbia Amateur Radio Awmiation
Culpeper Amateur Radio Association
D-MARC - Digital Mid-Atlantic Radio Council
Department of State Amateur Radio Club
Fauquier Amateur Radio Club
Frederick Amateur Radio Club
Frederick Amateur Repeater Group
Friendship Amateur Radio Club
Goddard Amateur Radio Club
Green Mountain Repeater Association
Herndon Repeater Group
IBM Amateur Radio Club
Johns Hopkins University APL ARC
Laurel Amateur Radio Club
Leisure World Amateur Radio Club
MD/DC MARS (Navy Marine) Association
MADRAS
Maryland Emergency Phone Net
Maryland FM Association
Maryland Mobileers Amateur Radio Club
Mercury Amateur Radio Assn., NE Area
Metropolitan Conununications Network
Metiovision Amateur TV Club
Mid-Atlantic DX & Repeater Assn.
Montgomery Amateur Radio Club
Montgomery Auxiliary Communications Service
Moose Amateur Radio Club
Mount Vernon Amateur Radio Club
National Capitol DX Association
Naval Research Laboratory Radio Club
NOAA Amateur Radio Club
North Point FM Association
Northern Virginia FM Association
Northern Virginia Radio Club
Ole Virginia Hams Amateur Radio Club
Opequon Radio Society
Pentagon Amateur Radio Club
Potomac Area VHF Society
Potomac Valley Radio Club
Prince George's Wireless Association, Inc.
Prince George's County ARES/RACES
Quarter Century Wireless Association, Inc.
Baltimore Chapter #20
Del-Mar-VA Chapter #150
Shenandoah Valley Chapter #137
Vic Clark Chapter #91
Washington Chapter #23
Rock Creek Amateur Radio Association
St. Mary's County Amateur Radio Association
Shenandoah Valley Amateur Radio Club
Southern Maryland Amateur Radio Club
Southern Patuxent Amateur Radio Club
Springfield Estates Elementary School-ARC
Stafford Amateur Radio Assn.
Sterling Park Amateur Radio Club
Summit Amateur Radio Association
Tri-County Amateur Radio Club
T-MARC , Middle Atlantic Repeater Council
Vienna Wireless Society
Voice of America Amateur Radio Club
Waldorf Repeater Group
Washington Adventist Amateur Radio Assn.
Washington Area Young Ladies ARC
Woodbridge Wireless, Inc.

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AUTO-CALL

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COMING EVENTS

May 29	Maryland FM Assoc. Hamfest, Howard Co. Fairgrounds, Howard Co.,MD
June 5*	Ole Virginia Hams Hamfest, Manassas, VA
June 5*	Breeze Shooters ARC Hamfest, Butler, PA
June 5	Tamaqua Transmitting Society, Tamaqua, PA
June 10-12	ARRL National Convention, Arlington, TX
June 12	Hanover Area Hamming Assoc., Hanover, PA
June 19	Frederick Hanifest, Frederick, MD
June 25-26*	Field Day '94
July 3	Murgas ARC, Wilkes Barre, PA
July 4	Harrisburg, RAC, Bressler, PA
July 10	Genesee RA, Alexander, NY
July 10	North Hills ARC, Pittsburg, PA
July 10	BRATS, Timonium, MD
Aug. 7	Mid-Atlantic ARC, Warrington, PA
Aug. 7	Southem Patuxent, Upper Marlboro, MD
Aug. 7	Shenandoah Valley ARC, Berryville, VA
Aug. 14	Delaware-Lehigh ARC, Easton, PA
Aug. 14	Summit ARA, Westminster, MD
Aug. 27	PROS, Chaffee, NY
Aug. 28	Glouchester Co. ARA, Mullica Hill, NJ
Aug. 28	Tri-State ARC, Matamoras, PA
Sept. 10	Radio Assn of Erie, Erie, PA
Sept. 11	Butler Co, ARA, Butler, PA
Sept. 11	FARFEST'94, Gaithersburg, MD
Sept. 17	Buffalo Hamfest, Buffalo, NY
Sept. 18	S. Jersey Radio Assn., Pennsauken, NJ
Sept. 24-25	York, PA
Oct. 15	Radio Amateurs Greater Syracuse, Syracuse, NY
Oct. 23	R.F. Hill ARC, Sellersville, PA
Oct. 30	Mason-Dixon, Westminster, MD

CONVENTIONS & CONFERENCES

May 20-22 ARRL Atlantic Division Convention, Rochester, NY
June 10-12 ARRL NATIONAL CONVENTION, Arlington, TX
July TBA Central Atlantic ATV Network Conference, North East, MD
Aug 6 Traffic Handlers Picinic, Old Forge, NY (Contact K2KIR or W2MTA for Info.)
Sept. 24 Central Atlantic ATV Network Conference, Dover, PA
Oct. 1 Mid-Atlantic VHF Conference, Horsham, PA

With Gratitude To Many.... Continued

Tony started the last months Presidents' editorial with these words and I thought it was only fitting to continue. One last person should be included in the list he mentioned, that is Tony Young. Tony has given his all to the efforts if the Foundation. Yes, he presides at the meetings but he also has put in countless additional hours. Tony did you ever try to track how many? Tony, I thank you for all your efforts and I'm sure there are numerous other Foundation members who do also.

There was a record turn out of trustees for the April Foundation Meeting, Where have all you good people been hiding? We would like to see you at all the meetings. This is YOUR organization and your input is needed for which direction the Foundation is to take. Individual member clubs when was the last time you had a report from your Foundation Trustee? Put them on your meeting agenda, they should have a report for your club each month.

The Foundation Officers are here to serve YOU, let us know how we can.

til next month,
Chuck, N4OSD

FROM THE EDITOR

It's been many months since you have heard from me so I thought it was time to touch on a few points that I think you need to know. I have been editing Auto-Call Magazine now for one year and have tried to make some changes (some good and some not so good). Many of you have sent me comments and suggestions which I hope you see when you read Auto-Call.

I am currently using a Dell 486D/50 Computer with 8 Megs RAM, 245 Meg Hard Drive, CD-ROM & FAX Modem. I use a Epson ES-600C Color Flatbed Scanner for Graphics reproduction and a HP Laserjet 4P 600 DPI Printer. I upgraded to Word Perfect 6.0 for Windows for my typing needs, Aldus Pagemaker 5.0 for Windows for page layout and CorelDraw for all my graphics needs. I now have a Clipart library of over 40,000 images and over 2,500 TrueType and Adobe Typefaces.

Production of Auto-Call Magazine starts with you, the writers. Your articles and columns are the backbone of this publication. That's why it's so important that you send your information to me on time. Your deadline is the 5th of the month prior to the month of publication. If you want your information to appear in the July issue it must be in my hands by the 5th of June..**NO LATER!**

I have received a few calls from you wanting to know why your article or column did not appear in Auto-Call. If it did not appear it means it was received after the 5th deadline. I am sorry to have to take such a hard stand on this issue but due to scheduling problems with the printer and postal delays I am unable to make exceptions.

Please include your Club header with your Club column. In order to keep your Club's information up to date this must be included in your column. If your column does not contain this information, it will be published without it!

73 de Doug/N3FHM

AMERICAN RADIO RELAY LEAGUE REPORT

by John Swafford, W4HU

This ARRL Report provides a brief summary of information published in the ARRL Letter and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

League sets stand on preferred call signs.

The ARRL Executive Committee at its meeting April 9 approved the recommendations of its ad hoc committee on the FCC's "vanity" call sign proposal (PR Docket 93-305).

The League's comments to the FCC on the proposal will be filed by the April 21 deadline and will in general reflect the views of hundreds of ARRL members who shared their views with the ad hoc committee. Here is a capsule summary of the recommendations adopted by the executive committee:

o After an initial phase-in period, all amateurs should be eligible for participation in the program.

o A one-time processing fee is preferable to the $7 per year proposed by the FCC.

o Any call sign held before the start of the program should be exempt from any administrative fee associated with the "vanity" program.

o A phase-in period be used to avoid overburdening the FCC with applications, in the following order:

(1) Previous holders of call signs, those wishing to request the call sign of a direct family member, and clubs with lapsed club licenses or call signs;

(2) Extra Class licensees, and clubs wishing to obtain the call sign of a deceased member;

(3) Advanced class licensees;

(4) Everyone.

* "Vacated" call signs (given up for a call sign of choice) should not be available for reissue for two years (the FCC proposal would make the call sign available immediately).

o The List of call sign choices should be increased from the FCC's proposed 10, to 25.

o The FCC should continue to issue call signs with appropriate numeric identifiers (0 to 9), including preferred call signs.

o Applicants for call signs outside the continental 48 states should be required to furnish proof of permanent residency there.

The League also will urge that frequent updates of the FCC's database be made available for distribution (on the ARRL BBS, for example), so amateurs can know what their "pool" is. And the League will ask that 1 x 1 call signs be made available for special events of "national significance."

League seeks tighter club license standards.

The ARRL has petitioned the FCC to increase the minimum number of members necessary for granting a club station license from two to four. The FCC has designated the petition RM-8462.

Continued on next page

The League said that the FCC's 1993 notice of proposed rule making to reinstitute club licensing makes this an issue whose time has come.

In 1990, the League, as part of a petition for rule making seeking miscellaneous changes in the Amateur Service Rules, proposed the same change. At that time, no club station licenses were being issued, but the League said that if that program was resumed, the two-person criteria would invite applications from parties that are not clubs, such as two or three licensees simply wanting an alternative call sign.

The FCC at that time declined to change the criteria, since new club licenses were not being issued.

The League said that the two-person criterion is insufficient to distinguish bona fide clubs--which should be encouraged and provided the identity of a separate license and call sign--from two or three individuals who do not function as a normal Amateur Radio club.

The League said, by way of example, that of 1,957 Amateur Radio clubs that are ARRL-affiliated, only 10 have fewer than four members.

Until 1976, the FCC required an application for a club station license to file copies of the club's constitution and by laws, which helped ensure that the club was bona fide.

The FCC has not issued club station licenses since 1979.

Amateur Radio Resolution Gains Majority in House.

The Amateur Radio Service Joint Resolution, H.J. Res. 199, now has a majority of the US House of Representatives as cosponsors. On April 11, four additions to the list of cosponsors brought the total to 220 (of which three are non-voting delegates).

The four are: Rep. James Talent (R-MO). Del. Eleanor Holmes Norton (D-DC), Rep. Thomas Ridge (R-PA), and Rep. Don Young (R-AK).

The Resolution seeks formal recognition of the value of Amateur Radio to the country, would support Amateur Radio as "national policy," and would encourage rules and regulations to facilitate Amateur Radio as a public benefit by encouraging new technologies.

Including Resolution sponsor Jim Cooper (D-TN), the total number of voting sponsors is now 218. There are currently 434 Representatives in the House.

More on the Resolution and the League's efforts in Washington were in April QST, pages 47 to 50.

More on League's Call Sign Comments.

The League emphasized that an orderly assignment system is vital to ensuring as much fairness as possible in the issuing of such call signs, and to that end proposed a series of four steps, or "gates", under which applications would be accepted. Once each gate opens, it would never close.

The ARRL said that a one-time application fee for a vanity call sign was preferred to an annual fee, since the processing takes place only once, and that an "up-front" fee would discourage frivolous, frequent requests for new call signs.

The League's comments also asked that those seeking a call sign formerly held, or the call sign of a deceased family member, not be bound by another recommendation--that call signs be issued only in the call area where the licensee lives.

Continued on next page

ARRL Report - Continued from page 8

The League also recommended that call signs of "well-known and highly regarded" amateurs in general not be "retired," since there was no fair way to determine where to draw the line, and any list of retired call signs was bound to become unreasonably large. Two possible ways in which a call sign might in essence be "retired" would be its issuance, upon application, to a club or to a direct family member.

Details will appear in June QST.

W6KG-ARRL Fund Aimed to Foster Good Will.

When Lloyd Colvin, W6KG, died last December, the League became the beneficiary of the proceeds of a life insurance policy on Mr. Colvin. The proceeds, more than $150,000, will now fund an endowment, the income from which will be used to further the strengthening of international friendship through DXing.

ARRL Executive Vice President David Sumner, K1ZZ, said "During his lifetime, W6KG made great personal contributions to international friendship through Amateur Radio in his visits to more than 150 countries with his wife Iris Colvin, W6QL. Through the Colvin Award, the League will proudly continue those contributions."

Announcement of the Colvin Fund was made at the International DX Convention in Disalia, California, on April 16, Details of the administration of the endowment have not yet been worked out.

New Communications Pact Links ARRL Volunteers, American Red Cross.

On April 1, 1994, the ARRL and the American National Red Cross signed a new Statement of Understanding, to lay out how Amateur Radio volunteers--including members of the Amateur Radio Emergency Service (ARES) and the ARRL National Traffic System (NTS)--can assist the Red Cross in disaster communication.

The League and the Red Cross have had such agreements since 1940; the new agreement replaces one in effect since 1974, and defines "disasters," acknowledges the Red Cross's recognition of the volunteer ARRL field organization for its "emergency communications readiness," acknowledges the ARRL's recognition of the Red Cross, and specifies the ways in which the two organizations will cooperate.

According to ARRL Field Services Manager Rick Palm, K1CE, the new agreement differs from earlier agreements in two major ways. It promotes closer working relations between ARRL ARES and NTS volunteers and the Red Cross on the local level, and it calls for the development of specific guidelines for the handling of health-and-welfare traffic and inquiries during and after disaster.

The agreement was signed in Washington, D.C., by ARRL President George S. Wilson III, W4OYI, and American Red Cross Senior Vice President William H. Reno.

Briefs.

o The annual ARRL Headquarters Open House will be Sunday, June 5, from 10AM to 3PM. As usual, it's on the same day as the Newington Amateur Radio League's flea market (which runs from 9AM to 1PM). W1AW will be open, too.

o Again this year the new edition of the ARRL Repeater Directory will debut at the Dayton HamVention. The 1994-95 edition has been reorganized for easier use "on the run," and has more than 20,000 listings of FM repeaters, packet systems, and propagation beacons.

Continued on next page

ARRL Report - Continued from page 9

o Check those DXCC application forms; the current form is MSD-505(194) for all new and endorsement applications. Please do not use older forms, as they lack spaces for critical information needed for processing at HQ.

And business is up again in the ARRL DXCC Branch. In March, 1127 applications for new awards and endorsements were received, and for the first three months of 1994 applications are up by 18%, QSLs by 48%, over 1993. Turn-around time is about three and a half weeks.

o ARRL affiliated clubs are asked to please advise HQ when your club officers or their addresses change, so we can effectively support your efforts. We can't help you if we can't find you!

Speaking of club officers, watch your mailbox in early May for a mailing concerning ARRL-sponsored club liability insurance--there's plenty of time to acquire this broad, inexpensive coverage, before Field Day!

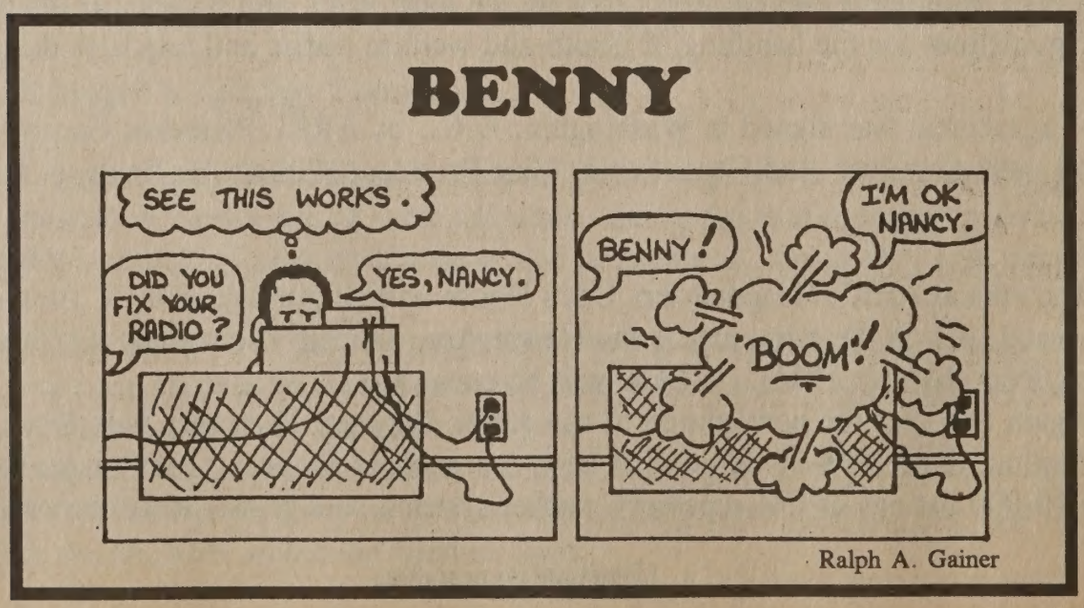
o The US amateur population held steady in January, as the first of a large number of license expirations began. The FCC added 2398 licensees and deleted 2282, leaving 631,726 licensed amateurs at the end of the first month of the year.

And the amateur license application backlog is on the rise again at the FCC: on February 1, 8543 were pending, and on February 28 there were 12, 868 awaiting action, according to ARRL-VEC Manager Bart Jahnke, KB9NM, who also says turnaround time in Gettysburg is hovering around the FCC's self-imposed maximum of 90 days.

o Steve Mansfield, N1MZA, ARRL's Manager of Legislative and Public Affairs, reports that more than 400 people signed the ARRL guest register at this year's convention of the National Association of Broadcaster, held in Las Vegas last month. Television professionals took all 50 copies of the League's Amateur Radio promotional spots, and 25 more were back-ordered.

"Even if a small number of these tapes are aired on a regular basis," Mansfield said, "the advertising equivalency potential is phenomenal."

o May QST is the biggest May issue ever, at 240 pages. The current joke among QST editors and production staff is "we did two issues in one month" (April went to the printer March 2 and May went out March 30.)



SKYWARN

The Washington Area Skywarn Amateur Radio Net has made dramatic strides in organization and professionalism during the past three years. This should be a source of great pride to all Skywarn participants. Through the hard work, dedication and technical excellence and expertise of over twelve hundred amateur radio operators spread out over ten thousand square miles in three states and the District of Columbia, our Net has earned a just deserved reputation of reliability, dependability, accuracy, and vigilance. The forecasters of the Washington Forecast office have come to rely heavily upon the reports received through the Skywarn Amateur Radio Net during severe weather events.

There is perhaps no greater compliment to a volunteer organization than to be relied upon in times of need by trained professionals. A large portion of the success of net operations can be attributed to the net's organizational structure which goes out of its way to include everyone who wishes to participate.

I was the Skywarn Net Manager for two years and, for the past year, was the first National Weather Service (NWS) Amateur Radio Coordinator in the country. The Assistant Managers, Jorge KD4DGQ, Tom K4FHK, and Ross N4YYH have done an outstanding job of closely coordinating every facet of the management position of the Skywarn Amateur Radio Net. I am eternally thankful for their assistance and support.

When we set out to reorganize our Skywarn Amateur Radio Net three years ago, I drew heavily on my experience as a volunteer fireman and the overall structure of the volunteer fire service. This model has proved itself very adaptable to volunteer emergency communications. Such things as redundancy in equipment at every location, having each piece of critical equipment backed up by emergency power, which is regularly checked and serviced, having numerous volunteers trained and available for every operating position from observer through net control station through net manager and through preplanning and coordinating redundant repeater coverage throughout the ten thousand square mile service area.

Despite all the above preplanning, there is one more facet of the volunteer fire service which needs to be brought into our Net to insure the Net's continued vitality. This is rotation of the Amateur Radio Coordinator's position. If a volunteer organization fails to rotate senior management, it runs the great risk of not having a continued vitality and organizational memory should the single key person choose to no longer participate. We, as a group, have come too far and have spent too much time, effort, and resources to risk this possibility.

Therefore, effective May 1, 1994, with the consent and approval of the NWS, I will become the first retired Amateur Radio Coordinator in the country! Jorge KD4DGQ, who has been in intensive training for this position for the past year, has been appointed by the *NWS* as the new Amateur Radio Coordinator. It is my hope that every few years the Amateur Radio Coordinator position will rotate to a new person who will be able to bring new ideas and new energy into the program. Part of every Amateur Radio Coordinator's job description is the training of his or her replacement or replacements for that eventuality. It is extremely difficult to learn the management skills necessary to coordinate our large and complex net operation without actually being trained in the position as assistant Amateur Radio Coordinator.

Continued on next page

Skywarn - Continued from page 11

I remain committed to the program and will participate as a volunteer and as an assistant to Jorge, as well as maintaining active involvement in the training of net control stations.

I would like to thank each and every participant and supporter of the Washington Skywarn Amateur Radio Net for their unyielding confidence, hard work, and dedication which were, and continue to be, absolutely essential elements in being able to achieve what this Net has done. It is my hope that the Net will continue to grow in reliability and technical expertise.

We, as a volunteer group, in Amateur Radio's finest tradition, have used our time, effort, skills, and equipment to assist the NWS in their mission of saving lives and property. I can think of no nobler cause for our efforts. Thank you again for your support.

Dan KC40CG

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DX DX DX

By John Kanode, N4MM

The ARRL DX Advisory Committee has voted to recommend deletion of Walvas Bay and the Penguin Islands from the DXCC Countries List. The vote was 16 yes, 0 no to recommend deletion effective March 1, 1994. On April 27, 1994, the ARRL HQ Awards Committee voted to accept this recommendation. The current country count is now 326 and the deleted count is 57.

Several other proposals to the DXAC to create new single band DXCC's for 20 and 15 meters and to add endorsements to other DXCC awards were voted on. Also a proposal to create a 10 meter DXCC Honor Roll was considered by the DXAC. Both were rejected by the DXAC and no recommendation will be made.

Other items before the DXAC are possible DXCC country status for Pratas Island (This was removed from the agenda but reinstated when some of the requested info arrived), Scarborough Reef and TRNC. Also a petition was received requesting that Aldabra Island be reinstated to the DXCC Countries List.

The committee is still considering the deletion of Mount Athos. A vote was taken but the results were meaningless due to ambiguities in the ballot wording. The ballot will be refined and revoted in May of 1994.

UPCOMING DXPEDITIONS

St. Paul Island	CY9	June 10-19
Micronesia	V63	June 8-17
Nigeria	5N0/DL9GMM	Now until Dec.
Niger	5U7Y	Now Active
Sri Lanka	4S7/ON4IPA	Now until August
Trindade Island	PY0TUP	Now until August

UPCOMING DX CONTESTS

Portugal Day Contest	June 4
ANARTS WW RTTY Contest	June 11-12
All Asian CW DX Contest	June 18-19

SILENT KEY DXERS

HK0BKX	Francisco Velez
W2IYX	Harvey McCoy
PY2PE	Eva Perenyi
KH6IJ	Katashi Nose
W4RZ	Ham Robinson

Continued on next page

DX DX DX - Continued from page 14

TIDBITS

The Chinese Taipei Amateur Radio League now has a QSL bureau for BV amateurs. The address is CTARL, PO Box 73, Taipei, Taiwan, ROC.

7O1AA is back on the air as of March 30. The operator is Yemen native Achmed, ex HZ1FM and he is using the equipment left in Yemen by Paul, F6EXV. QSL's go to PO Box 485, Aden, Yemen. All operations are on SSB, no CW or RTTY at this time.

The international Marconi Day operating activity on April 23 appeared to be a success. With very limited operating time, I managed to contact 12 different stations who were participating in the event. If you were able to contact 12 or more special event stations, you can send for a special award. Send $10 or 12 IRC's and a list of log info to the Cornish Radio amateur Club, IMD Awards Manager, PO Box 100, Truro, Cornwall TR1 1RX, England.

The V8 Brunei QSL bureau has closed down according to V85GA. OSL's to any V85 station should be sent direct.

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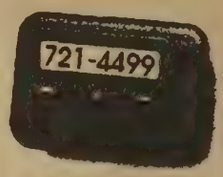

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TRAFFIC FUN

BOOK TRAFFIC:

Holiday time is a great opportunity to send several people the same message. This is accomplished by Booking your traffic. Let's say you want to send five friends a greetings on the Fourth of July. Except for the message number, the preamble would be exactly the same.

When the preamble and the message are the same, you can Book your traffic. Why should you bother? It takes much less time in sending and relaying a Book. In general, it takes a half to a third the time. This makes life easier on the relaying stations. It's also very boring to send the same message over and over. How often might your message be relayed? If you enter a message at the local level (VHF), it is sent to a Section Net (Virginia or Maryland/DC). From the Section level net, it goes to a Region Net (4th, or 3rd Region). If the message is for someone out of the Region, it proceeds on to an Area Net (Eastern). If the message goes to someone in the Central or Pacific Areas, a liaison station on the Eastern Area Net will pick it up and relay it on to those Areas. Then the process reverses, and your traffic is relayed back to the appropriate Region, Section, and Local Nets. The person relaying this Book will split it apart whenever needed. Thus, you could send 5 messages to Florida, New York, Ohio, Texas, and Oregon. When this Book enters the Fourth Region, Florida would be separated from it and the rest would continue on to the Eastern Area Net. On the Eastern Area Net New York would be listed as a message for the 2RN; Ohio would be listed for the 8RN; Texas would be listed for CAN; and, Oregon would be listed for the PAN. At this point it ceased to be a Book, and becomes 'individual messages. Often the whole book goes to the same area. It is a great help to the relaying stations to Book your traffic. Since you get a point for each addressee Oust as you would if you sent them individually), why not help those who will be relaying your traffic?

HOW TO BOOK:

The preamble and message is the same so you begin by sending them. If the signature is the same, it will go under the text, as always. If the signature is different, it will go under each addressee. Each message number must be before each addressee. Here is an example of different signatures:

R N4GHI 8 Mt Vernon VA July 1

Happy Fourth of July x Thinking of you

NR 1 complete name
address
city/state/zip
phone number
John and Geri

Continued on next page

Traffic Fun - Continued from page 15

NR 2 complete name
address
city/state/zip
phone number
Pete Smith

A complete name enables the delivering station to check the phone book if the phone number gets garbled. If you address the message to Grandma, you are out of luck. If you send your traffic via packet, no booking is allowed, as each message must be sent to a particular zip.

THE PINK CARD:

A must for every traffic operator. It is a card (pink) produced by ARRL and is a quick referenceguide for: 1) details the various parts of an NTS message, 2) gives the meaning for message "precedences", 3) explains different "handing instruction" (Did you know you could send a message and using handing instructions, ask the delivering operator to deliver it on a particular day?), 4) gives abbreviations, prosigns and prowords; and, 5) lists 'Q' signals (all 'Q' signals needed to check into a CW net). They are available from ARRL, or I would be happy to send you one. 1"m good in the Call Book; SP N4GHI @ WA3TAI; or 703/360-3773.

CALL BOOK/PACKET:

For those on packet, WA3TAI, now has Call Book on his PBBS. I would

rather use his than my new 1994 Call Book. The reason is that Tom's is much larger print to read. After checking into WA3TAI, and getting the prompt > type CB N4GHI (whatever call you need). You can ask for several calls at a time. Thanks WA3TAI. You are appreciated for all you do for the wonderful world of traffic.

ZIP CODE FINDER:

Another excellent traffic aid is the Rand McNally 'Zip Code Finder'. It only costs about seven dollars and is very helpful for getting accurate zip codes, spelling cities, and finding cities in a state.

N4GHI, Section Traffic Manager Virginia.

Elmers Corner - MIXING SIGNALS

By Paul Wilkins, AB4CY

In 1921 Armstrong published his discovery of the result of mixing two AC waves of different frequency. The process was called heterodyning and resulted in the invention of the super-heterodyne receiver which is the universal principle of all modern day receiving and transmitting systems. If two AC signals are combined in a "mixer" which must be a nonlinear device (like a diode) the mixer output contains new frequencies not just the two input frequencies. The most important new frequencies are the sum and difference of the two original frequencies. There are also additional harmonics but these are relatively unimportant. This meant that you could mix an incoming signal from an antenna with a local oscillator signal in the receiver and obtain an output at another frequency where it might be easier to process.

Early short wave radio receivers concentrated on amplifing the RF signal and then detecting it. This was a difficult process that required the amplifiers to be neutralized so they wouldn't oscillate and the efficiency was low because the materials used for coil forms, tube sockets, insulators and wiring were lossy at high radio frequencies. The higher the frequency the greater the losses. The heterodyne method allowed the incoming signal to be mixed with a local oscillator signal generated by the receiver to produce a difference frequency that was much lower than the two original frequencies. This difference frequency is known as the "intermediate" frequency, the IF. For the following forty years the adopted IF was 465 Khz because this was a frequency that could at the time be amplified easily. Most of the gain in a heterodyne receiver is in the IF amplifier. Most signal processing: filtering with mechanical and crystal filters, noise blanking, etc. is done at the IF. IF transformers had bandwidths that passed a few Khz and worked well with CW, AM and SSB voice signals.

When FM came along after WW2 it needed wider bandwiths to accomodate the frequency spectrum of high-fi music broadcasting. The technology by this time had developed better materials for higher frequencies so the FM IF was set at 10.7 Mhz. Today with vastly improved materials and components the IF may be the sum frequency as well as the difference frequency. A few modern tranceivers use an IF as high as 70 Mhz. to minimise the "image". The image is the leakage of the "other" IF through the same amplifier chain. If you heterodyne an incoming signal at 7.15 Mhz with a local oscillator signal of 7.615 Mhz (to obtain an IF difference signal at 465 Khz), a strong signal on 8.080 Mhz will also mix with the local oscillator to provide an output at 465 Khz. this is the image. By raising the IF the "images" are more widely separated and more easily suppressed. In modern equipment images are a thing of the past.

One good example of heterodyning is the BFO in a communications receiver. The intermediate frequency (465 Khz) can't be detected by any of our senses. In order for us to "hear" the signal we "mix" the IF with another frequency of 466 Khz and detect the difference frequency of 1 Khz. To adjust the tone of the detected signal you could vary the 466 Khz a little to change the tone of the detected signal. The term "beat frequency" came from audio frequency experience with vibrating strings. If two guitar strings are tuned to almost the same pitch and they are both plucked, the sound waves interfere with each other and produce a low difference frequency which you can hear as a pulsating "beat". An SSB signal is heterodyned with one frequency to detect the upper sideband and another to detect the lower sideband.

If you look at a schematic of a modern transceiver you can find several mixer components. Solid state mixers tend to be diode based and will be hidden in a chip. There will be two input frequencies and one output. You can ADD two signals in a resistor but this won't create any new frequencies. The discovery of heterodyning made modern radio possible.

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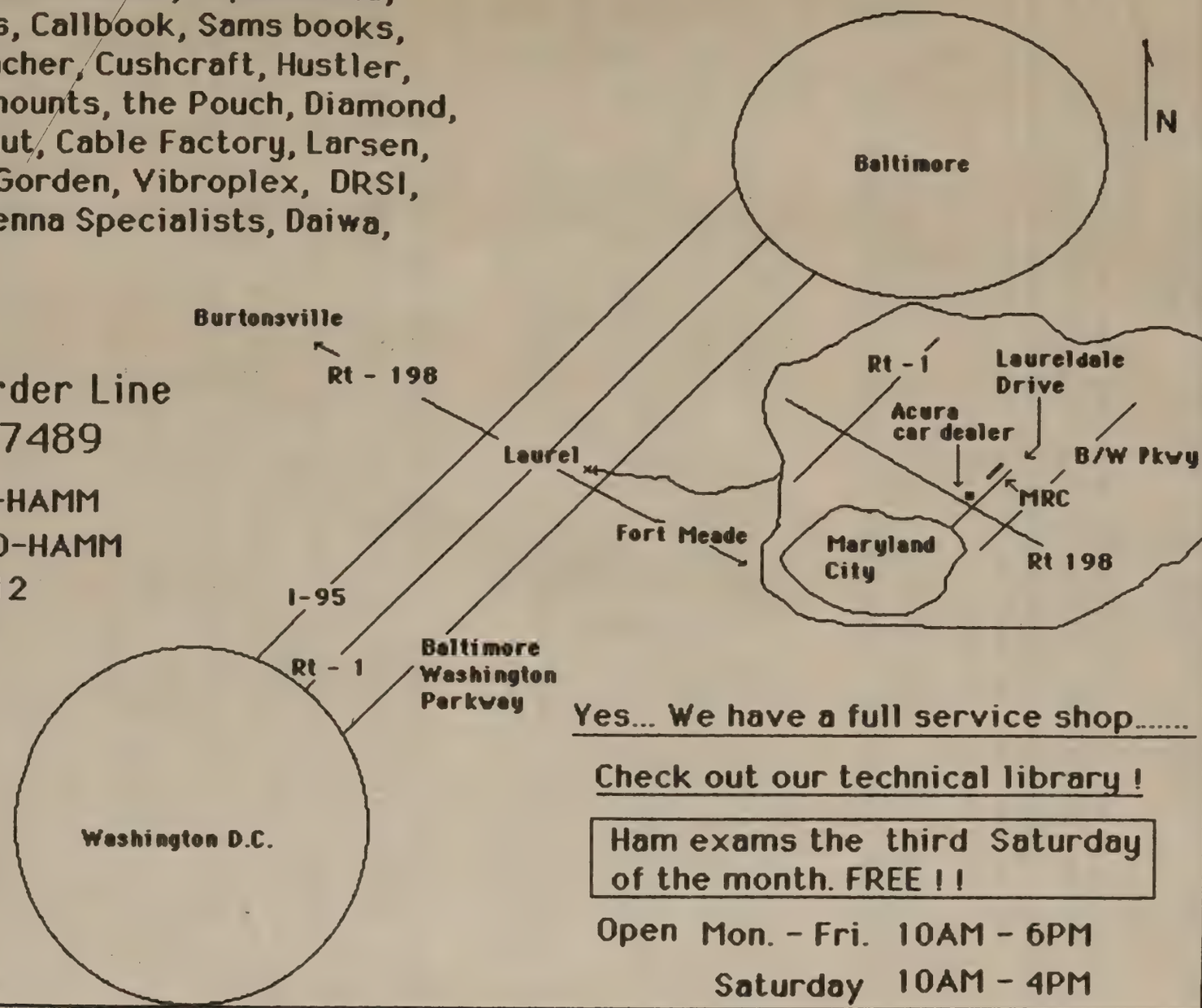

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FCC HIGHLIGHTS

By Jack Kelleher, W4ZC

More on RFI to telephones

Last month we recapped an FCC Report on a Telephone Interference Survey by FCC's Field Operations Bureau. Among telephones used in the survey were so-called "bullet-proof" telephones, which the FCC defines as one that is specially designed to be immune to interference. Bulletproof telephones were tested at 52 locations where the individuals were receiving interference to their telephones. The bullet-proof telephones eliminated interference at 96 percent of the locations.

This aspect of the survey has given rise to a number of inquiries about the nature of these instruments. The bullet proof phones are identified in Attachment 5 to the FCC Survey, with a note that: All phones were refurbished, internally modified commercial units. The modifications were not discussed in the Report. Another source points out that these phones were all of the non-electronic type, and that it is not nearly as easy to "immunize" a telephone that contains lots of active devices. It can be done, it's just not as easy.

Amended Packet Message Forwarding Rules.

The FCC has selectively amended part 97 of its Rules, effective June 1, 1994, to enable packet radio message forwarding systems to operate while retaining safeguards to prevent misuse. The action culminates more than three years of consideration as who is responsible for the content of messages transmitted to destinations via one or more intermediate forwarding stations, or "digipeaters".

The problem arose during the Persian Gulf war, when a message addressed to all U.S. Amateurs was inserted into the packet system. The message publicized a 900 number to call to register opposition to the war in Iraq. A complaint was filed with the FCC by an amateur who believed this to be a business message because part of the revenues from these numbers are paid to the sponsor, and therefore prohibited under part 97.113 of FCC Rules regulating the Amateur Radio Service.

The FCC sent violation notices not only to the originator, but also to packet repeating stations that automatically retransmitted the message. Up to that point amateurs believed that message originators were the sole accountable party for such violations.

The FCC pointed out that there is no current supervisory authority in the amateur digital network, which makes these unsupervised systems easy targets for misuse. The Commission said that it could be difficult for it to establish, after the fact, that a particular station originated a high speed digital transmission. For these reasons the Commission said there must be ongoing oversight of the system, and the control operators of the first forwarding stations are in the best position to provide such oversight.

Continued on next page

The FCC Report and Order in this matter:

(1) holds the message originator primarily accountable for its content;

(2) Says that originators of messages posted for retransmission (such as to a "bulletin board") by amateur stations but not yet entered into the packet system must be known to the licensee of the first forwarding station - - - or the licensee of the station which enters that traffic into the network must be responsible for its content.

The Commission also clarified that the station that receives a communication directly from the originating station and introduces it into the message forwarding system is the first forwarding station.

The Commission believes that these rule changes will enable contemporary high speed message forwarding systems to operate as their designers intended, while retaining the minimum safeguards necessary to prevent misuse.

(Ed. note:This vignette is based on an article in W5YI Report for May 1 which includes the text of the Report and Order).

Request to Eliminate 20 wpm Requirement Denied

The Commission has denied such a Petition for Rulemaking submitted by Edwin R. Dahl, KI7FB, of Spokane, Washington. In denying the proposal, Robert H. McNamara, Chief of the Special Services Division, wrote in part: "These matters were the subject of numerous major rule making proceedings which generated many thousands of comments from the amateur community. After considering the views expressed, the Commission adopted the (present) rules" - - - You have not presented sufficient evidence to justify revisiting the matter at this time - - - your request to change the telegraphy requirements is repetitive and is denied."

No Regulatory Fees for Amateurs

On March 11th the FCC adopted an NPRM (Notice of Proposed Rulemaking) concerning a proposed new Section 9 of the Communications Act of 1934, authorizing the Commission to assess and collect annual regulatory ("user") fees to recover costs incurred in carrying out its enforcement policy, rulemaking, user information services, and international activities, (Section 9 Regulatory ["user"] fees are authorized by the Omnibus Budget Reconciliation Act of 1993, the so-called Clinton deficit reduction package).

Special Emergency Radio, Public Safety Radio Service licensees, and Amateur Radio operators are exempt from the payment of any regulatory or application fees on the basis of their non-commercial status. A provision is made, however, for the optional payment of a statutory fee for "Amateur vanity call-signs". (See "A Vanity Call Sign System", this column, Autocall, February 1994).

Continued on next page

The NPRM on regulatory fees has this to say (in paragraph 59) about vanity callsigns. Amateur Vanity Call-Signs.

59. If Part 97 of the Rules is amended by the Commission to authorize the use of vanity call-signs, amateur radio operators would be able to request a specific call-sign. Each amateur licensee with a vanity call-sign will be assessed a regulatory fee of $7.00 per year. The total fee of $70.00 will cover the ten year license term during which the call sign will be in use. The first 10-year fee must be paid at the time a request for a vanity call-sign is made. If a requested vanity call-sign is not available or otherwise cannot be issued to the requestor, the regulatory fee will be refunded, since amateurs are expressly exempt under the statute from regulatory fees, unless they have received their vanity call-sign.

More on proposed reallocation of 2300-2450 MHz.

In our April 1994 column we reported on an NTIA preliminary plan to reallocate parts of the 2300-2450 MHz band from Government to non-government use.

The W5YI Report for May 1st reports on a hearing on this matter in Washington, on April 7th, at which ARRL representative Paul Rinaldo, W4RI, told NTIA officials that if cognizance of the bands goes to the FCC, high density users will move into the bands, and the amount of spectrum that the Amateur Service can use will be reduced. Rinaldo also expressed concern that existing and planned paired use of these and other frequencies, e.g.,for earth-space and space-earth communications in the amateur satellite service, might be impacted by allocation changes.

Richard Parlow, Director of NTIA's Office of Spectrum Management said: We certainly understand these concerns. We tried to play the balancing game as best we could. You must understand that there are many tradeoffs. We also recognize that the Commission will have to, in some fashion, recognize that the amateur service does provide a service and does things for the American public, in safety, national security and emergency preparedness. They're going to have to take that into account. I expect that you and your representatives will not sit idly by and be silent in the proceeding.

NTIA officials were not optimistic that major changes would be made in the bands to be reallocated.

Annual Washington Area Banquet

More than 100 Radio Amateurs and their guests attended the 38th annual banquet for Washington area Amateurs on Saturday April 23rd, 1994, at the Ramada Hotel, Tyson's Corner, Virginia. Sponsors were the Foundation for Amateur Radio, QCWA Chapter 23 (Washington D.C.), QCWA Chapter 91 (Northern Virginia), Chapter X of the Society of Wireless Pioneers, and the Department of State and Voice of America Amateur Radio Clubs. Jack Kelleher, W4ZC, was M.C.

Richard C Kirby - Guest Speaker At The 1994 Spring Banquet.

The principal speaker was Richard C. Kirby, W0LCT/HB9BOA, Director of the Radio Communication Bureau of the International Telecommunication Union in Geneva. The ITU is preparing to commemorate the 100th anniversary of the dawn of the radio era in 1895, when the first successful transmissions were made by Marconi and Popov. Mr. Kirby gave a succinct history of events leading up to those historic "firsts" and a brief summary of radio milestones since that time.

The spring meeting of the QCWA Board of Directors had taken place at the Ramada on April 22nd and 23rd, and all but two of the Officers and Directors of QCWA attended the banquet, as well as the General Manager and the Journal Editor. Another guest was Perry Williams, W1UED, who is retiring from the ARRL Staff on May 1st. Perry has been the League's Washington representative for the past twenty years. He was given a portfolio to commemorate his retirement.

QCWA President Harry Dannals, W2HD, presented to Dick Kirby the plaque for the QCWA Presidential Award which had been made in absentia in 1992. This was the first opportunity that Kirby has had to receive the plaque under suitable circumstances.

Ethel Smith, K4LMB, received the Award of Excellence for twenty years of devoted service to QCWA and the Board as General Manager, Secretary, Director, and Vice President.

President Harry Dannals received the QCWA Distinguished Service Award for his outstanding guidance of Board activities during his tenure as President.

Golden Certificates were presented to Bob Arrowsmith, W4JNN (65 years), William Faust, K3CH (60 years), Stan Brigham, W3TFA (55 years), Gordon Messmer, W4IQA (55 years), and Bill Miller, K4MM (55 years). A 50-year Gold Certificate was presented to James S. McLeod, K3RPN. Stan, W3TFA also received the Century Club Certificate, and a Chapter Meritorious Service Certificate).

Continued on next page

QCWA Banquet - Continued from page 23

Others earning Gold or Golden certificates but not able to attend were:

*70 years, Frank Kratokvil, K4RE;

*60 years, Len Aberbach, K3ATA; George Andrews, W1DCT; Jack Bobbitt, W4HV; Bob Cannon, W4IGO; George Dively, W4CLU; Elmer Jones, K4EUX; Phil Nesbitt, W3CQ; Ray Smith, N4MLC;

*55 years, Irvin Hershowitz, W3HQG; Robert LeBlanc, WI3F;

*50 years, W. R. Dunning, K4YG; Robert J. Ertman, K3BV; Bob Fasulkey, W3BBQ.

(Gold certificates celebrate the 50th anniversary of licensing; Golden certificates are issued in 5-year increments beyond 50 years)

Door prizes were donated by the American Radio Relay League, Electronic Equipment Bank, Ham Radio Outlet, and Maryland Radio Center.

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SCHEDULE OF EXAMINATIONS

1994

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CONTACT: JERRY GAVIN NU3D (410)761-1423

MAY 28, 1994 (SATURDAY)

GLOUCESTER, VA - GLOUCESTER RADIO AMATEUR COLLEGE OF EXAMINERS (W5YI VEC) PRE-REGISTRATION DESIRABLE
CONTACT: FRAN STERLING KD4UEY (804)693-2117

JUNE 4, 1994 (SUNDAY)

VIRGINIA BEACH, VA - VA BEACH ARC (ARRL VEC)
PRE-REGISTRATION DESIRABLE
CONTACT: JUDY ROGERS KD4JMA (804)468-9166

JUNE 11, 1994 (SATURDAY)

DAVIDSONVILLE, MD - ANNE ARUNDEL RADIO CLUB (LAUREL VEC)
WALK-IN
CONTACT: NANCY ALLEY NT3Z (410)761-7115
BOB ISRAEL WC3I (301)262-5083

ALEXANDRIA, VA - MT. VERNON ARC (LAUREL VEC) WALK-IN
CONTACT: FRANK MACKEY N4GUS (703)455-1510

MANASSAS, VA - OLD VIRGINIA HAMS ARC (ARRL VEC)
CONTACT: HARRY VORHAUER W4PVA (703)368-6050

CUMBERLAND, MD - MOUNTAIN ARC (MOUNT. ARC VEC) WALK-IN
CONTACT: LEO PATTERSON KQ8E (304)289-3576
GAY REMBOLD W3DFW (301)724-0674

HARRISONBURG, VA - MASSANUTTEN ARA (ARRL VEC) WALK-IN
CONTACT: MARSHALL COOPER N4ZKH (703)856-8012 (6-9PM)

RICHMOND, VA (ARRL VEC)
CONTACT: RICK COOK (804)798-5048
INFO PROVIDED BY ARRL - NOT VERIFIED

JUNE 18, 1994 (SATURDAY)

LAUREL, MD - LAUREL ARC (LAUREL VEC)
PRE-REGISTRATION DESIRABLE
CONTACT: JOHN CREEL WB3GXW (301)572-5124 AFTER 6 PM

JUNE 28, 1994 (TUESDAY)

ANNAPOLIS, MD - MARYLAND MOBILEERS ARC (LAUREL VEC)
PRE-REGISTRATION REQUESTED - LIMITED WALK-INS
CONTACT: LOIS TURNER KA3VVQ (410)647-4178

JULY 9, 1994 (SATURDAY)

DAVIDSONVILLE, MD - ANNE ARUNDEL RADIO CLUB (LAUREL VEC)
WALK-IN
CONTACT: NANCY ALLEY NT3Z (410)761-7115
BOB ISRAEL WC3I (301)262-5083

ALEXANDRIA, VA - MT. VERNON ARC (LAUREL VEC) WALK-IN
CONTACT: FRANK MACKEY N4GUS (703)455-1510

CHESAPEAKE, VA - CHESAPEAKE DX ASSN (ARRL VEC)
PRE-REGISTRATION DESIRABLE
CONTACT: BILL VEREBELY KC4YX (804)424-4764

GEORGE WASHINGTON UNIVERSITY - GWU/DOS (ARRL VEC)
CONTACT: HANNI RAAD AA3EI (202) 223-3925

JULY 16, 1994 (SATURDAY)

LAUREL, MD - LAUREL ARC (LAUREL VEC)
PRE-REGISTRATION DESIRABLE
CONTACT: JOHN CREEL WB3GXW (301)572-5124 AFTER 6 PM

JULY 23, 1994 (SATURDAY)

CULPEPER, VA (ARRL VEC) PRE-REGISTRATION PREFERRED
CONTACT: BILL BROWN AC4KP (703)547-3089
GARY W0QDP (703)854-6187

JULY 27, 1994 (WEDNESDAY)

GLEN BURNIE, MD - MARYLAND MOBILEERS ARC (LAUREL VEC)
PRE-REGISTRATION REQUESTED - LIMITED WALK-INS
CONTACT: JERRY GAVIN NU3D (410)761-1423

JULY 30, 1994 (SATURDAY)

GLOUCESTER, VA - GLOUCESTER RADIO AMATEUR COLLEGE OF EXAMINERS (W5YI VEC) PRE-REGISTRATION DESIRABLE
CONTACT: FRAN STERLING KD4UEY (804)693-2117

JULY 31, 1994 (SUNDAY)

HAGERSTOWN, MD - ANTIETAM RADIO ASSN ARC (ARRL VEC)
PRE-REGISTRATION REQUESTED
CONTACT: PAGE PYNE WA3EOP (301)714-0688 (DAY)
BOB LONG KD3JK (301)824-5132 (EVENING)

AUGUST 6, 1994 (SATURDAY)

HERNDON, VA - HERNDON REPEATER GROUP (ARRL VEC) WALK-IN
CONTACT: MIKE WEBER WB8RDN (703)450-2304 BETWEEN 7-9 PM

AUGUST 13, 1994 (SATURDAY)

DAVIDSONVILLE, MD - ANNE ARUNDEL RADIO CLUB (LAUREL VEC)
WALK-IN
CONTACT: NANCY ALLEY NT3Z (410)761-7115
BOB ISRAEL WC3I (301)262-5083

ALEXANDRIA, VA - MT. VERNON ARC (LAUREL VEC) WALK-IN
CONTACT: FRANK MACKEY N4GUS (703)455-1510

CUMBERLAND, MD - MOUNTAIN ARC (MOUNT. ARC VEC) WALK-IN

CONTACT: LEO PATTERSON KQ8E (304)289-3576
GAY REMBOLD W3DFW (301)724-0674

HARRISONBURG, VA - MASSANUTTEN ARA (ARRL VEC) WALK-IN
CONTACT: MARSHALL COOPER N4ZKH (703)856-8012 (6-9PM)

AUGUST 20, 1994 (SATURDAY)

LAUREL, MD - LAUREL ARC (LAUREL VEC)
PRE-REGISTRATION DESIRABLE
CONTACT: JOHN CREEL WB3GXW (301)572-5124 AFTER 6 PM

AUGUST 30, 1994 (TUESDAY)

ANNAPOLIS, MD - MARYLAND MOBILEERS ARC (LAUREL VEC)
PRE-REGISTRATION REQUESTED - LIMITED WALK-INS
CONTACT: LOIS TURNER KA3VVQ (410)647-4178

EXAM FEES:

* CHECK FOR APPROPRIATE EXAM FEE. FEES AND MODES OF PAYMENT FOR INDIVIDUAL VECs AND EXAM TEAMS MAY VARY.
* ARRL VEC EXAMS COST $5.75
* LAUREL VEC EXAMS ARE FREE
* MOUNTAIN VEC EXAMS ARE FREE
* W5YI VEC EXAMS COST $5.75

BRING TO EXAM:

* PICTURE IDENTIFICATION
* COMPLETED FCC FORM 610 (MOST VE TEAMS WILL SUPPLY AT EXAM)
* ORIGINAL AND A COPY OF CURRENT FCC AMATEUR RADIO LICENSE
* ORIGINALS AND COPIES OF ALL ACTIVE CERTIFICATES OF SUCCESSFUL COMPLETION OF PRIOR EXAMS
* EXAM FEE (CHECK OR CASH DEPENDING ON VE TEAM)

"GRANDFATHER" CREDIT FOR ELEMENT 3B (GENERAL WRITTEN):

* IF YOU PRESENTLY HOLD A TECHNICIAN CLASS LICENSE WHICH WAS FIRST ISSUED PRIOR TO MARCH 21, 1987, YOU MAY BE GRANDFATHERED FOR ELEMENT 3B (GENERAL CLASS WRITTEN EXAM) BY PRESENTING THE ORIGINAL AND A COPY OF THE LICENSE DATED PRIOR TO MARCH 21, 1987 TO THE VE TEAM. IT IS YOUR RESPONSIBILITY TO PROVE THAT YOU ARE ENTITLED TO GRANDFATHERING. DO NOT LOSE YOUR ORIGINAL LICENSE!

RULES FOR SUBMISSIONS TO THE FAR VOLUNTEER EXAMINER COOPERATIVE:

1. ALL SUBMISSIONS MUST BE IN WRITING
2. DATE AND DAY OF WEEK MUST BE SPECIFIED FOR EACH EXAM DATE
3. POINT OF CONTACT AND PHONE NUMBER MUST BE SPECIFIED
4. SPONSOR AND LOCATION MUST BE SPECIFIED
5. VEC MUST BE SPECIFIED
6. EXAM DATES UP TO 12 MONTHS IN ADVANCE WILL BE ACCEPTED

Training Classes

Alexandria Radio Club	Rich Adamy - KA4GFY	(703)644-3920
Anne Arundel Radio Club	Tony Young - WA3YLO	(301)262-1917
Arlington Amateur Radio Club	Fred Bardsley - WD4DHW	(703)533-0372
Antietam Radio Association	Robert Long - KD3JK	(301)824-5132
Baltimore Radio Amateur TV Society	Joe Chidester - W3SHZ	(410)602-0353
Fauquier Amateur Radio Club	Neil Spokes - AB4YK	(703)364-3861
Frederick Amateur Radio Club	Steve Bauman - W3FOA	(301)662-4552
Herndon Repeater Group	Michael Weber - WB8RDN	(703)450-2304
Laurel Amateur Radio Club	Pub Weaver - W3DQI	(301)498-6293
Madras	Larry Ziecheck - N3GKS	(301)984-6112
Maryland Mobileers ARC	John Baugus - N3JME	(301)551-3161
Montgomery Amateur Radio Club	Jane Rosenthal - AA3CQ	(301)762-6262
Mount Vemon Amateur Radio Club	John Forrest - WZ4A	(703)971-3905
NASA/Goddard Amateur Radio Club	Vikki Gigante - KA3PVS	(301)249-2609
Ole Virginia Hams ARC	John Fritsch - N4YOB	(703)791-5995
Pentagon Amateur Radio Club	David Boyd - K9MX	(703)659-6241
Rock Creek Amateur Radio Assn.	Leo Boberschmidt - KA3TGY	(301)949-3954
St. Mary's County ARA		(301)862-2214
Shenandoah Valley ARC	Dale Streyle - N2IKY	(703)888-8427
Southern Maryland ARC	Vic Curtis - WA3YUV	(301)888-1388
Southern Patuxent ARC	Dwayne Kincaid - WD8OYG	(301)586-2177
Springfield Estates ARC	Will Schmitt - KD4CNX	(703)768-5709
Stafford Adult Education	Jerry Mullinix - AC4HK	(703)659-3905
Sterling Park Amateur Radio Club	Mark Johnson - WS3N	(703)430-3804
Tri-County Amateur Radio Club	John Creel - WB3GXW	(301)572-5124
Vienna Wireless Society	Paul Wilkins - AB4CY	(703)560-2779
Woodbridge Wireless, Inc	Cliff Deel - KO4FM	(703)491-0841

FOUNDATION MEETING

The Foundation for Amateur Radio, Inc. meets at 8: p.m. on the second Wednesday of each month.

Visitors are always welcome

The next meeting will be on June 8 in Takoma Park, Maryland
Columbia Union College Science Building Auditorium, Flower Avenue

(Take beltway exit 30 South on Colesville Road to FranklinAvenue, East on Franklin to Flower, South to the college)

Talk-in on 147.18

18th Annual

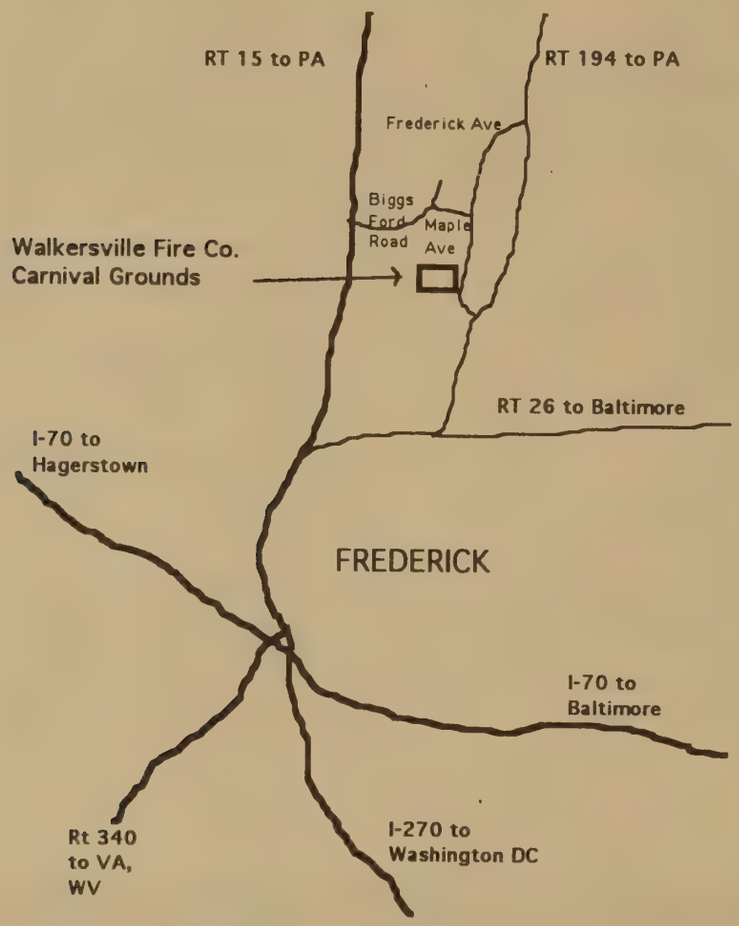
Father's Day Hamfest

Sponsored by the
Frederick Amateur Radio Club

Sunday - June 19, 1994

8:00 am - 3:00 pm

Walkersville Fire Co. Carnival Grounds - Walkersville, MD



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For Information write:
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(301) 695-2633 ext. 6393

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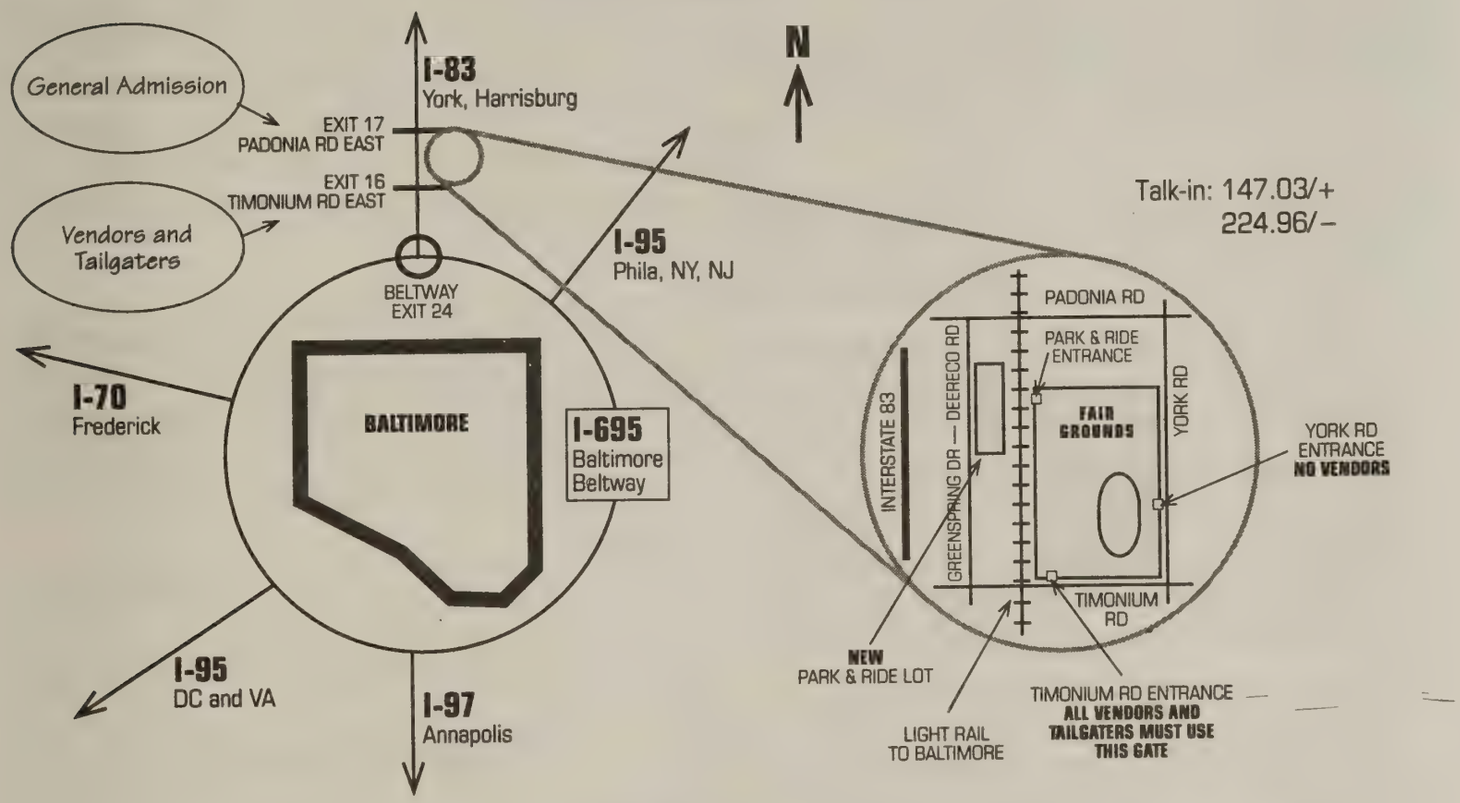

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Anne Arundel Radio Club

* MEETINGS: 8 PM 1st and 3rd Thursdays, Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off MD Rt. 214 near Annapolis.
* ON THE AIR: 2030 Thursdays when there is no club meeting on 147.705/105. Tuesdays at 2030 local time on 28.410. The Chesapeake Weather & Traffic Net on 147.705/105 at 1100 and 1500 every weekend day and public holiday from April 1 to November 15. MSN (Maryland Slow Net) every evening at 1930 on 3.7170 Mhz.
* ADDRESS: P.O. Box 308, Davidsonville, MD 21035
* INFORMATION: Margaret (Holly) Bevan, 301-923-0229

The 1994 Novice Class was brought to a successful conclusion with a VE testing session on April 23rd. Twenty-six new hams are awaiting their calls, with four or five more expected to complete their tests on the second Saturday in May. It was a very enthusiastic class and most are expected to take advantage of the offer of free membership in AARC for the remainder of 1994.

The April 21st club meeting was held at the Navy-Marine Corps MARS Station in Cheltenham, Maryland. About twenty club members attended. Dave Vittum/WlDV, Chief of Navy-Marine Corps MARS Worldwide, hosted the tour of the facility. In addition to regular exercises, constant system readiness in maintained through daily networks that handle message traffic to and from members of the military and governments all over the world. The antenna "farm" includes log periodicals, rhombics and a variety of other antennas. They welcome visitors.

Eleven club members, coordinated by Sharon Hasslinger/N3MNO, reported to the Navy-Marine Corps Stadium in Annapolis at 7 AM on April 24th to do the communications for the annual March of Dimes Walk-a-thon. In addition to the 7-mile walk, there was a much shorter route for the Buggy Brigade and senior citizens who wished to participate but would not attempt the 7 miles. Several AARC club members set up, maintained and took down the PA system for the annual Marlborough Hunt Club Races at Roedown on that same weekend.

At the AARC Clubhouse on April 9th, Bob Israel/WC3I, Oscar Ramsey/NV3G and Charlie Tiemeyer/W3RMD gave 65 tests to 29 persons. Thirty-four tests were passed with 21 upgrades. Dick McKelvie/KE3HQ and Jeff Smith/N30KY graded. Harlan Ray, III acted as runner. Holly Bevan/N3BMB and Bettye/K3VRZ registered. Nancy Alley/NT3Z was the coordinator. The next testing session at the clubhouse will be on June llth.

Robert Kammer/N3POX has upgraded to General. The following persons have passed the 5 WPM code test to become Tech+: Darryl Hambly/KA3WJU, Melanie Haycraft/KB3AWF, Jennifer Young/N3QDV and Chris Young/N3QDW.

73, Holly/N3BMB

Don't Forget!

Our Deadline is the 5th of the Month prior to the Month of publication....

Chapter X

Society of Wireless Pioneers

THE INTERNATIONAL ORGANIZATION OF PROFESSIONAL RADIO TELEGRAPHERS

For Information Call (703-536-9537

ALEXANDRIA RADIO CLUB

* MEETINGS: SECOND FRIDAY OF EACH MONTH, 8:00 PM, AMERICAN RED CROSS BUILDING, 401 DUKE STREET, ALEXANDRIA, VA
* CLUB STATION: W4HFH
* REPEATERS: 147.315+, 444.600+ (CROSS LINKED W/2 MTRS), 53.13-, 224.82- (CROSS LINKED W/6 MTRS), 919.6-, 1282.6-
* NET: EVERY THURSDAY EVENING AT 8:OOPM, 147.315/444.6
* INFORMATION: HARRY JONES-N4CWP, 703-790-9613.

The Alexandria Radio Club will be demonstrating Ham Radio at Alexandria's Waterfront Festival on 11 and 12 Jun. The club has been an exhibitor at this festival for several years. The exhibit draws interest and has produced new hams through referrals to the various training classes in the area.

On the 23rd of April, members of the club along with others ARES members in the area supported the Northern Virginia EMS Council in a training exercise for the Alexandria, Arlington, and Fairfax emergency services agencies. The exercise was a mock disaster involving a Metro Train. A train was set up on a siding in Alexandria and "victims" of the incident were prepared and placed in the area for simulated treatment. This exercise proved again that exercises in a controlled environment under expert direction are highly effective means of training.

Field Day is planned for Fort Ward Park with set up starting around 9:30 AM 25 June. This year we are considering the use of battery power. I am sure that will make the 2 AM shift much quieter and save that last dash for gasoline. Nothing is darker than when the generator quits, HI. In addition to the use of batteries being a novelty, novel antennas are always evident at field day. Some of them actually work too. Hope to see all at field day.

Harry/N4CWP

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TNX es 73 de Kevin, N2KXX - Pres.

ATTENTION ALL CLUBS

DO NOT use the MAPS-NET BBS to upload your Auto-Call Column.

The MAPS-NET BBS has gone subscription and we will no longer be able to use the service for Auto-Call Magazine.

Until other arrangements can be made, please send your Club Column directly to me on 3.5 or 5-1/4 floppy prior to the 5th of the Month.

Orders and Inquiries
5-9 PM EST
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Arlington ARC

* Meetings: Third Tuesday of each month at 7:30 PM
* Place: Red Cross building, 4333 Arlington Blvd., Arlington, VA
* Net: Tuesdays (except third Tuesday), 7:30 PM, 145.47(-)
* Information: Mike Callaham, NW3V 241-5618 or @WA3TAI
* Mail: 4333 Arlington Blvd., Arlington, VA 22203

The Arlington Amateur Radio Club welcomed two new members at its April meeting; Allen Calvert and Walter Raif. Both Allen and Walter are working towards their first ticket. Thanks for coming guys and please don't hesitate to call on us for help along the way. We can't wait to hear you on the air!

We have some sad news to report; two silent keys. Paul Fearson, WB4GLP, passed away March 25th after a long bout with cancer. He will be missed by the AARC and the Blue Ridge Runners Net. Paul was a charter member of our club. Another charter member, Leo F. Gorzkowski, W4LG, passed away April 7th. Leo was active in the early days of ham radio and designed and constructed most all of his gear. Our condolences to his wife Rose, KB4ZQK.

The club station got the ok recently to operate again on all HF bands from Dennis Bodson, W4WPF, the station trustee. We had been having problems, operating on 40 and 80 meters, with RFI tripping the Red Cross fire alarm but relocating the antenna and installing a low-pass filter seems to have mitigated the problem.

Following some informal discussions with the Alexandria Amateur Radio Club, we're planning to co-operate together this coming Field Day (June 25-26). Planning is coming along nicely; we've appropriated some money for refreshments and Alexandria has reserved a site. The location this year, as in years past, will be Fort Ward Park in Alexandria (off of Braddock Road, just east of I-395). We'll be getting more organized in the weeks to come. We'd love to see all you Arlington/Alexandria Hams out there for Field Day '94.

After Field Day, we'll turn our attention to building up our membership. One suggestion is to beef up the club library with learning materials and organize Elmers for new Hams. We'll look into the possibility of classes and/or outreach into the local schools. If you're interested, you know where to find us.

73 de KD4PDC

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Capital City Amateur Radio Society

* Meetings: 3rd Saturday of the month at 12 Noon (except July & August). Woodridge Public Library, 18th & Rhode Island Ave. NE, Washington, DC
* Repeater: 145.11/144.51 Mhz in NE Washington, DC. Auto-patch membership available.
* Weekly Nets: Computer Net: Monday at 8 PM on the repeater Packet Net: Tuesday at 8 PM on 145.53 MHz On-Air Meeting: Wednesday at 8 PM on the repeater RTTY Net: Thursday at 9 PM on the repeater (All amateurs are welcome to join in on any of these nets).
* Information: Chester R. Martin, W3EIL, (202) 529-9598 1719 Franklin St. NE, Washington, DC 20018 Leo J. Boberschmidt, KA3TGY KA3TGY@N3BBF.MD.USA.NA
* Training: Plater Campbell, N3DZQ, (202) 544-7810

CONGRATULATIONS: Congratulations to CCARS member Gus Hernandez, N3KTM. Gus went to a license testing session on May 1st and passed his code and theory and went for No-Code Technician to Advanced Class Amateur. Way to go Gus; know you put in a lot of effort to do all that.

NEW MEMBER: At the 16 April meeting, Angela McKay, KE6BDW, was voted in as a new member of CCARS. Angela, from Sacramento, is a student at Catholic University. Welcome to the club Angela. Now we will have to see if Angela will get a radio club started at Catholic University when she returns in the Fall.

NEW OFFICERS: CCARS election of officers was held at the meeting of 16 April and the following are the new officers:

President - Cy Parker, N3EPH
Vice President - Joe Saunders, K3UAL
Secretary - Chester Martin, W3EIL
Treasurer - Willis Stewart, N3LGB

At Large Members of Board of Directors
Weaver "Shep" Shepperson, - WB3KIC
Leo Boberschmidt - KA3TGY

A round of applause and our thanks to the officers of last year and warm wishes and the club's support for the new officers.

73, Leo Boberschmidt, KA3TGY

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ATTENTION CLUBS

HERNDON REPEATER GROUP

The HRG's Youth Net meets every Wednesday night at 7 PM on 145.31. We encourage all hams under the age of 18 to check in. Also, if you are a ham and know of a young person interested in amateur radio, have them check in with your help during the third party traffic section at the beginning of the net. For further details you can contact David KD4YIJ.

Also congratulations to David KD4YIJ on his recently becoming an Eagle Scout in the Boy Scouts of America. David has worked very hard to become an Eagle Scout and everyone in HRG is proud of his accomplishment.

HRG is busy making all our last minute plans for Field Day '94. We will be operating as WN3T in the 4A Battery category. We will conduct our activities at Lake Fairfax Park in Reston, at a site overlooking the lake. Follow the signs or call for talk-in on the 145.31 - repeater. HRG's Field Day activities have always had something for everyone to enjoy. We have stations dedicated to the hard core contester, stations for the more casual operator, and a Novice/Tech station for our newer hams. Plus Lake Fairfax provides many activities for non-hams and hams alike, such as camping, swimming, ball fields, in addition to the social scene at our Field Day site. There will be areas set aside for anyone who would like to set up a tent and spend the weekend with us. We would like to invite everyone to join us for a what has always proved to be one of the more popular events in amateur radio. Contact Nick, KD6ADY for any further information.

The Herndon Repeater Group is looking for someone to coordinate the Fall Novice Tech training classes. If you would like to volunteer, please contact Mike WB8RDN at 703-450-2304 for details.

Remember that HRG offers a series of Technical seminars at the Loudoun Eastern Regional Library which cover all aspects of our hobby. Check into our Monday 9 PM net for all the latest details on upcoming seminars.

Any HRG members who might have items of interest for AutoCall are encouraged to submit them to me via mail or via packet, directly or through BBSHRG
(KD4MTWC@N4WJN.#NOVA.VA.)

73's Mike KD4MTW

National Capitol DX Association

* Meetings: Feb, Apr, Jun, Aug, Oct and Dec at a member's home. Contact the Secretary (Rick Murphy, WA1SPT) for details.
* On-The-Air: Every Sunday at 8:30 PM on the 147.000 repeater. All are welcome!
* Information: Rick Murphy - WA1SPT (703) 280-2637. Leo Boberschmidt - KA3TGY (301)946-3738 or KA3TGY on the local DX PacketCluster or KA3TGY@ N3BBF.MD. USA.NA

GUYANA (8R) REPORT: NCDXA member Larry Vogt, N4VA, is back from his extended stay in Guyana as part of a FAIRS training program for local amateurs. Not only was Larry very active in his training efforts during his time there in March and April, he was also **very** active on HF. Larry reports that he made about 6500 contacts while he was there and arrived home to find 2000 pieces of mail awaiting him! Filling out all those cards can be a LOT of work. Larry also managed to activate a new island (Leguan Island) in Guyana for the Islands On The Air (IOTA) program. Quite a lot of activity.

CONGRATULATIONS: Our congratulations to Brian Bayus, N1KCE, on passing his Extra Class test. Brian will be flexing his R-7 on the new frequencies. Brian is also active in writing *Auto Call* columns for the Vienna Wireless Society.

Continued on next page

MADRAS

The Maryland Apple Dumpling Radio Amateur Society, Inc.

* MEETINGS: 2nd and 4th Thursdays - 7:00 P.M. NBC Building - WKYS Conference Room 4001 Nebraska Avenue, N.W. Washington, DC 20016
* NET: 1st & 3rd Thursdays at 8:30 P.M. on 145.45 MHz
* REPEATERS: 444.100/449.100 MHZ 145.45/ 144.85 MHz
* BBS: 145.030 MHZ Call Sign: N3GKZ Alias: MADBBS (This is a closed BBS Station)
* MAILING: P.O. Box 2468 - Wheaton, Maryland 20.902
* INFORMATION: Hani Read - AA3EI (202) 223-3925) Larry Ziecheck - N3GKZ (301) 984-6112 Jean Blacik - N3PLC (301) 984-6112

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ITEMS OF INTEREST

MADRAS members experienced two superb guest speakers during April. Michele Cimbala showed the film "Tornadoes - Terrible Tuesday" and then arranged a phone hookup between Glen Wattley - WJ5V who was in Whichata Falls when that terrible tornado hit, Dan Grooper KC40CG of Skywarn, and the MADRAS Club. Glen was reporting on the path of the tornado as he was in his car racing ahead of it. The phone hookup lasted about half an hour and Glen was wonderful about answering all the questions we had on disaster situations.

Jon Albers-KA30VK talked on "Contesting" at our April 28th meeting. Many of our new members are interested in this aspect of ham radio and were delighted to know about all the contests available during the year.

Preparations for Field Day - 94 are just about completed. our club has been busy checking antennas, setting schedules, getting out advertising, etc, MADRAS will be holding Field Day in the parking lot of the Richmond Business Center in Rockville, Maryland.

Good Luck to all of you on Field Day - 94.73's .... Jean - N3PLC

NCDXA - Continued from 36

NCDXA THANKS: Our thanks to John Kanode, N4MM, for his truly fine work during the recent club operating event - the NCDXA Field Check DX Hunt. Not only did John track the progress of all involved and issue monthly statements on the PacketCluster but he had the award plaques available at the April 23rd meeting. A really fine job considering that the event didn't end till March 1st. Many thanks for an excellent job John.

JUNE MEETING: The next NCDXA meeting will be June 18th, the day before Father's Day AND the day before the hamfest put on by the Frederick ARC at Walkersville. We hope to have a surprise venue BUT if anyone wants to volunteer a location, please contact one of the officers.

73 and Good DX, Leo Boberschmidt, KA3TGY, President, NCDXA

Washington Metropolitan Area:
Federal Systems Amateur Radio Association/ ARA (Formerly IBM)

* Meetings: First Tuesday of the month that is a work day, 5:45 PM to 7:00 PM
* Next Meeting : June 7,1994, 5:45 PM in Building 182, Room 3C-51, (The Radio Shack) Phone: (301) 240-6877
* Informal Net: Sunday evenings: 147.39 MHz at 21:00L
* Packet: 145.75 MHz, running TCP/IP netcode (WA3YOO) in support of Montgomery County R.A.C.E.S.
* Information: Erinn Tordella/N3HSA (301) 640-4286; else, leave Radio Room VoiceMail at 301 240-6877

At the regularly scheduled May meeting of the WMA/Federal Systems Amateur Radio Association (formerly IBM), the club president solicited input from officers and members regarding their suggestions and recommendations for ARA accommodation to the reality of "life after IBM." The objective of this meeting was to ensure that the officers' and members' preferences are "captured" and provided in a coherent format to Loral management for further consideration.

At the 5/94 meeting, the president also provided a current Treasurer's Report, courtesy of Bill/KX8I. Between checking and savings accounts, the ARA has a bank balance of approximately $400. (On the agenda for a future meeting will be a discussion of whether the ARA wishes to take a pro-active stance toward dues collection, especially as this relates to badge access into the Shack!)

Also at the May meeting, it was noted that in years past the ARA has not held formal business meetings during the months of July and August--but that assuming we conduct a meeting on June 7-- consideration will be given to holding another "Humgry Hams" breakfast at Shoney's on a Saturday morning during the summer.

The general consensus is that these breakfasts have been well attended and well received. (Speaking as your club president, the undersigned's perspective is that regardless of the future "disposition" of the ARA under Loral's leadership, we have every reason to continue our tradition of "Hungry Hams" breakfasts! In fact, there have been several requests from members of other local Clubs, to co-participate in this "fine business" meeting format.)

With Chuck/W3GQY finally back in town after a 3-week road show to the West Coast, the ARA expressed its appreciation to W3GQY for his year-long "volunteer community service" efforts that led to the successful donation of (3) IBM PC/AT systems units to Montgomery County RACES. Congratulations, Chuck for your dedication and persistence in following through over the months.

Next month in this column, we hope to be able to share some "new news" just off the press related to the recent announcement on the naming of a Loral Federal Systems Club President. At publication time, we had not yet had the pleasure of meeting him personally; however, rumor has it that he may possess "special credentials" that render him uniquely qualified to represent the ARA! Please "stay tuned" for further information....

'73, Erinn/N3HSA, President

ATTENTION

Please send your subscription renewals to our Post Office Box. DO NOT send them to me. When sending a Shack Sale Item, DO NOT include your subscription renewal and fee in the Shack Sale Payment.

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P.O. Box 7612
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Montgomery Amateur Radio Club

Montgomery Club Prepares For Education Classes

By the time you read this, the Montgomery Amateur Radio Club's education committee will have launched its spring education classes. The committee currently offers classes for would-be novice/tech plus licensees and upgrade classes for the General class ticket.

MARC members weren't immune to weather problems this winter. A discussion on radio astronomy had to be cancelled twice due to weather. The club did manage to pass a budget that includes provisions for the purchase of such equipment as an antenna analyzer. Club members also approved funding to improve the MARC two-meter repeater controller. Approval for the controller upgrade came on the heals of a January meeting in which Stan Staten, W3INK, provided a detailed look at the repeater.

THEY GOT THE NEW YEAR OFF TO A VERTICAL START

Chances are if you take a poll to determine the kind of activities that traditionally accompany New Year's Eve celebrations, you won't find antenna installations among the top responses. You won't, that is, unless you poll a few members of the Montgomery Amateur Radio Club. Ken, Nichols, KD3VK, and Jeff Strandburg, WV3B, decided that hoisting a vertical in the air was a perfectly appropriate way to end the old year and start the new. They braved seasonal December temperatures to help Nolan Crabb, AA3GO, install an R7 vertical in the yard of a townhouse.

As anyone who's ever seen one knows, you can't completely hide an R7 from the zealous regulators who enforce the various anti-antenna covenants in a given development. But according to Nolan AA3GO, the vertical wasn't discovered for two months.

During that time, he managed to log a host of domestic and foreign stations.

In early March, the R7 was replaced by an in-attic dipole consisting of two Hustlers placed back to back with resonators for 15, 20, 40, and 80 meters. Nolan says the new antenna's a townhouse-dweller's dream. He's already logged some good catches, especially for someone just starting in HF.

The dipole currently shares attic space with a two-meter antenna which went up during the holidays as well. The two-meter ground plane was built and boosted into place by MARC Board Member Jeff Horlick, KZ3F. So why would a bunch of dedicated hams give up precious holiday time to do an antenna installation? The answer is as old as ham radio itself. It's the service-to-others concept that sets ham radio apart from every other hobby in the world.

GET THAT TRANSMITTER'S PRINTS

During the club's March 23 meeting, MARC members got a close-up look at a signal analysis device from Hewlett-Packard which is capable of actually capturing a transmitter's signalprint. Just as people can be finger printed, so transmitters can be tracked based on the print they emit when operating.

The HP 89440 is based entirely on digital signal processing. It's capable of sampling 25.6 million samples per second. The processor measures data in the time domain and can save all its measurements to disk for later off-line analysis. Any club can buy one--but it'll take one or two serious bake sales. The machine sells for $65,000 fully loaded. MARC President Al Rabassa, NW2M, says money to buy such a machine isn't in MARC's budget this year, and no club members stepped forward to write a check.

Nolan Crabb, AA3GO

Ole Va Hams ARC

* Meetings: Third Monday of each month, 8:00pm, Northern Virginia Electric Coop Bldg., 10323 Lomond Dr., Manassas, Va.
* Repeater: Voice - WA4FPM 146.970 and 224.66 (linked 24hrs)
* Packet Node: (OVH) 145.030 and 223.540
* Packet BBS: (BBSHRG) 145.030
* Bulletin : Every Thursday on the repeaters 8:00pm
* Information: Harry Vorhauer - W4PVA (703) - 368-6050
* Mailing Address: Ole Va. Hams ARC, P.O. Box 1255 Manassas, Va. 22110

At this writing (early May) the Ole Va Hams are busy with preparations for the June 5 Manassas hamfest. But as you read this, the calendar should have been flipped to the next page (its June now) and we hope you are relaxing with a cold libation and enjoying the new toys you found at the hamfest! We thank you for your support and hope you will return next year. We are no doubt having a cold one too, while thinking of next year and looking forward to field day in few days. It's a great time for us radio hobbyists isn't it? With the large crop of new call signs in the area your field day stations should have plenty of curious new operators. The "old timers" should get ample opportunity to show some newcomers the ropes (shouldn't that be antennas instead of ropes?). Thanks to the Prince William County Park Authority the OVH field day activities will again occur at J. C. Long Park. Everyone is welcome to join us. Jay - NS5N is our field day chairman this year and would be glad to answer any questions you may have.

The Ole Va. Hams would like to welcome the following new members:

KE4AJN - BOB, KD4EEQ - TONY, KE4GIF - BILL, KE4GKH - BRIAN, KE4GSZ - MAUREEN, KE4IAR - BRIAN, KE4JEO - FRED, KE4JWY - CHARLIE, KE4JWZ - CATHY, KE4MF - MIKE, WA8YCK - CHUCK, WB9OOG - MARK.

OVH will be conducting a VE testing session 9:00am June 11 at the Manassas Campus of Northern Virginia Community College Room MS002. Questions about the session can be directed to Harry - W4PVA....

At the February OVH meeting ARRL Division director John Kanode - N4MM, presented Harry - W4PVA, with the 1993 Roanoke Division ARRL Service award. Harry holds an Extra class license, and was first licensed in 1946 as W6WOQ. He has also held the calls of W2BXH, VP4TAV, and KZ5AX. Harry is a retired Electronics Engineer, a charter member of the Ole Virginia Hams, and serves as a Volunteer Examiner. Harry has written many articles for World Radio and the Ole Virginia Times (the OVH newsletter). Approximately four to six nominations are received for this award annually from amateurs in Virginia, West Virginia, North Carolina, and South Carolina. As a recipient of the award, Harry is now entitled to vote for future nominees for this award. This is the third time an Ole Va. Hams member has earned this important award. The first was Vic - W4KFC (now a silent key) in 1970. Vic created the award in 1968 to honor those Roanoke Division amateurs who have donated their time and service over the years to better amateur radio and the ARRL . Nancy - NK4U won the 1992 award. We at OVH are glad to have a guy like harry around.

I would like to thank the editor of the Ole Va Times: Jay - NS5N, and the OVH club Secretary: Ivan KD4DFD (who provides the OVH meeting minutes each month). The Ole Va Times and OVH meeting minutes, as well as the ARRL Roanoke Division Newsletter have served as sources for some of the information in this column.

73, ALAN - KD4KBX

Rock Creek Amateur Radio Association

* Meetings: 3rd Friday of each month at 7:30 PM.
* VITRO Corp.Bldg #4, 13900 Connecticut Ave., Silver Spring, MD
* Repeater: W3RCN, 145.25/144.65 in Rockville, MD.
* Weekly Net: Monday at 8 PM on the repeater
* Alumni Net: Monday at 10:45 AM on 7.230 MHz(+/- QRM)
* Luncheon: Each Wednesday at 11:00 AM at the Anchor Inn in Wheaton, MD
* Address: P.O. Box 1913, Silver Spring, MD 20915
* Information: Leo Boberschmidt - KA3TGY (301) 946-3738 or KA3TGY@ N3BBF.MD. USA.NA

ELECTIONS: The election of officers was held at the meeting of 15 April. The following were elected for the coming year:
President John Halweg, N3ETD
Senior Vice President Bill Bevan, N3IYH
Junior Vice President Harold Holmes, N3BRM
Secretary Leo Boberschmidt, KA3TGY
Treasurer Mike Salapka, NQ3V
Executive Committee Mike Kahn KA3GSV
Bob Love, KD3IO
Mike McIntyre, AJ3Q
Boyd Nelson, KZ3Z
At Large Trustee Carl Brandt, N3CFA

HAM RADIO ON CABLE TV: Arrangements have been made to have at least two of the ARRL videos copied and used as program material on the Cable TV Montgomery's Channel 54, one of the community access channels. The first showing was the end of April and the first week in May. The videos shown were: *The New World of Amateur Radio* and *SAREX - The Shuttle Amateur Experiment*. They also used one of the new promotional videos produced by the ARRL. I'll try to post broadcast times on the local packet BBS. For any of you in other clubs not in Montgomery County, you might see if your local cable system has any public access channels and see about having the ARRL videos made available to them. The ARRL do not charge for these videos; you just have to pay return postage. This is a great way of promoting ham radio to a lot of people.

73, Leo Boberschmidt,
KA3TGY@N3BBF.MD.USA.NA

SOUTHERN MARYLAND AMATEUR RADIO CLUB

* Meetings: 2nd Friday of each month at 1930 at the Church of the Nativity, 5203 Manchester Dr., Temple Hills, Maryland.
* Nets: Tuesday at 2000 on 147.15+ Repeater; Wednesday at 2000 on 1.865 (± QRM); Thursday at 2000 on 28.447 USB.
* PG ARES: Wednesday at 2100 on 147.15+ Repeater. All are welcome to join.
* Repeater: W3PT/R 147.15+, Cheltenham, Md. Autopatch to 911.
* Mailing: P.O. Box 273, Cheltenham, Md, 20623
* Information: Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

With the warm days upon us, SMARC members have become real busy. Last month was no exception. Congratulations go to Joann Simpson, KA3WPD, for her winning first place in her school science fair with the homebrew construction of a 2 meter quad antenna. We will have more on this next month. However, look for the quad at our next meeting. Congratulations also go to Bob Jeter, AG3B with the addition of a new harmonic.

SMARC was busy with public service events also. SMARC members provided communications for the annual MS Walk-a-thon in Accokeek MD and the March of Dimes in Waldorf, MD.

Continued on next page

SMARC - Continued from page 41

Supporting communications and an amateur radio display were established during the recent Boy Scout Spring Camporee in Clinton, MD, thanks to the efforts of Mike Krakosky, N3HIZ, and his son. A special thanks goes to Gordon, KA3MWN, who brought over his telescope to the Camporee and allowed the boys to do some fantastic star gazing.

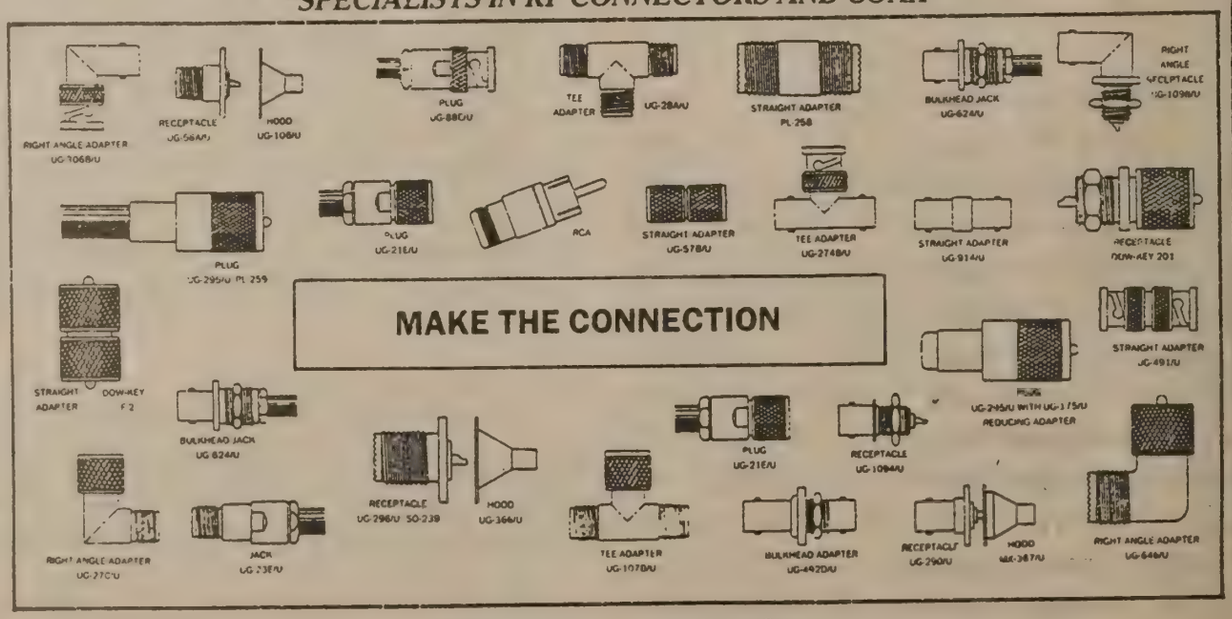
You may have noticed that there is a new voice on the repeater. We have upgraded the controller which now includes a female voice (Juliet). This new controller provides a greater vocabulary along with Juliet's announcement of numbers and the date and time. There are other sound effects which will be tried from time to time to get members reactions. Speaking of the repeater, Allen, KA3ZPA, and Richard, WK3I, challenged the tower recently to install a new 2 meter Isopole antenna and the 440 Isopole antenna for the new repeater. As the Repeater committee gets time more progress will be made. Arrangements are also being made to install an autopatch on the repeater. Details will be available in the near future but when the autopatch becomes active the repeater will also have a new callsign. We are sure going to miss the callsign W3PT on the repeater. Thanks Frosty!!

Are you ready for Field Day? SMARC will once again be participating with a wide variety of operations over the weekend of June 23. Arrangements have been made with the Cheltenham facility to use the same area we had before for this year's activities. Make sure you check into one of the nets to get the details on howto get registered (in order to get on the base) and when operations are scheduled. This promises to be a fun event. We are arranging for a special event during this year's activities. We will have Tommy, N3HBS, and his famous spaghetti sauce brewing while Vic, WA3YUV, is right beside him with his famous dish. Come on out and show these guys how it is really done! Unfortunately the members will have to suffer and eat all this food in order to judge the best dish. This event is scheduled for Sunday, June 26th, so bring the kids, there is plenty of room and a play area. We also are planning a little swap meet to share our little used goodies. Plan to come and join us!

Till next month. 73, Greg - WA3FSC

The R.F. Connection

"SPECIALISTS IN RF CONNECTORS AND COAX"



The R.F. Connection
213 N. Frederick Ave., Suite 11, Gaithersburg, MD. 20877
301-840-5477

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WOODBRIDGE WIRELESS, INC.

* Meeting: 2nd Tuesday — 8:15 PM Canterbury Woods Community Center (Lakeridge) Corner of Springwood Drive and Chaucer
* Net: Monday at 8 PM on WB4FQR-R 147.84/24
* Repeater: 444.9/449.9, 147.84/147.24
* Mailing: P. O. Box 112, Woodbridge, VA 22194
* Information: Jim Neff, WJ4M, (703) 680-6217

Wow, things are getting busy around here in WWI-land. Spring and Summer are the main seasons for public service events. There's the annual Lakeridge Crop Walk where folks walk a course to provide food for the hungry. There's the annual Prince William Runner's race through Prince William Forest Park and others. There are lots of chances for hams to volunteer.

Twelve WWI-ers made it to the Dayton Hamvention this April. Eight of them actually paused long enough to have a group photo taken. The call signs remembered were: WD4KXB, AA4RU, KJ4VG, K8EI, WB4RDV, K8MLM, KO4FM, WA0DYJ and KQ4KK. Denis (WD4KXB) reports that it rained, but it was still fun, even when 40-thousand people tried to crowd into the Hara Arena, deserting the acres of tailgating area.

Charles (KB7FSB) and Debbie (KD4LJB) spent Wednesday and Thursday (the 4th and 5th of May) up in Kirby helping the search for the lost 5-year-old from Leesburg. Charles said the search effort was big (the paper said over 340 people). Organizers did not ask for any mobilization of ham radio operators to support the emergency, although an individual from Manassas introduced himself as an emergency coordinator (Charles didn't remember the name...sorry). Charles and Debby worked on communications projects, coordinating logistics and operations. Ham radio was used internal to the command post and its nearby area (set up in the Kirby Assembly of God Church building). Hams did come, N3PIO came from Lancaster, PA. Others came too, from as far as Fredricksburg. Searchers used emergency frequencies and Civil Air Patrol frequencies. A couple of VHF handhelds were set up on a mountain as a makeshift repeater, one to receive and one to transmit. After the tragic death of one Appalachian Search and Rescue member returning home exhausted, a medical officer was assigned to check every volunteer leaving. The medical officer could detain the volunteer for rest if they seemed too tired to travel. Charles and Debby left about 4 PM Wednesday arriving about 6:30. They were headed back about 6:30 Thursday.

Support for the rowing races on the Occoquan is busy. Regulars are: Bob (NQ4K), Nikki (N4GGB), Rick (KC4PYS), KJ4LR, and WW3M. Last Saturday, as Bob was accompanying a judge's boat back to the docks, a rower collapsed having been overcome by asthma. She was taken into the judge's boat and Bob was able to contact the boathouse station and have the emergency technicians standing by. Some of these races are big, featuring 1400 to 1500 rowers.

Other club activities are also heating up. There's a rabbit hunt scheduled for May 22 and the club mountaintop expedition in early June for the ARRL VHF contest. Don't forget Field day either. Speaking of contests, the club sponsors plaques for club participation in contests. Ten club members competed in last November's sweepstakes as a club event. The plaque for single op CW went to Bill, WB4NFS while Denis (WD4KXB) won single op phone and Loyd (K8EI) and friends won multi-op.

Finally, April also featured a mock hurricane drill. Jim (WD4AIR) set up shop in the County Emergency Communications Building with VHF and HF (a vertical attached to a nearby wellhead). He managed to contact Richmond and pass some traffic before being shut down by a violent thunderstorm.

Well, that's all from the Land that the Mouse Liked. See you next time.

Jim, WJ4M

AMSAT
THE AMATEUR SATELLITE CORPORATION

* LOCAL MEETINGS: Semi-annual in January and July.
* VHF FM Net: Sundays at 9 pm. on 146.835 MHz, WA3NAN/R, Greenbelt, MD.
* INFORMATION: NCS Pat Kilroy - WD8LAQ, by packet radio WD8LAQ @ WB3V.MD or by Internet wdlaq@amsat.org

AMSAT is a non-profit, scientific and educational organization incorporated in Washington, D.C. with headquarters in Silver Spring, Maryland. Everyone is welcome to join AMSAT and to become actively involved in the support and operation of the amateur space program. If you would like additional information then please write to: AMSAT Headquarters, P.O. Box 27, Washington, DC 20044. Or you may telephone headquarters at (301) 589-6062. AMSAT Regional Coordinator: Howard Ziserman - WA3GOV.

BARC HAMBOREE

The ARRL Maryland State Convention/Baltimore ARC Hamboree on March 26-27th was quite exciting. I enjoyed the opportunity to give a presentation with Frank Bauer - KA3HDO about AMSAT and the amateur satellites, including the Shuttle Amateur Radio EXperiment (SAREX) and the current Phase 3D project. Howard Ziserman - WA3GOV spent all day Saturday meeting folks at the AMSAT booth and supplying the latest AMSAT information as well. Good work, Howard!

DAYTON HAMVENTION

AMSAT Forum:

"SAREX Tenth Anniversary Reflections and Visions for the Future" Report

SAREX is a joint sponsorship among NASA, the Radio Amateur Satellite Corporation (AMSAT) and the American Radio Relay League (ARRL). The SAREX payload is carried aboard the space shuttle at least three time a year. With the help of Amateur Radio Clubs and Ham Operators, astronauts have been speaking over the Ham airwaves while in orbit. The primary purpose of SAREX is to spark the student's interest in math and the sciences.

The SAREX program was one of several AMSAT forums held at the HamVention. The program included an astronaut panel discussion entitled "SAREX, A View From Space", an SAREX working group presentation dubbed, "SAREX Reflections, Current Status and Future Visions", and an educational panel session assigned "SAREX: A View From The Classroom".

Roy Neal - K6DUE, acted as moderator and kept the pace energetic. Frank Bauer - KA3HDO, co-anchored the event. The right touch of audio-visual materials heightened the impact.

The SAREX forum was a time to meet several astronaut Hams! Astronauts Steve Nagel - N5RAW (Pilot STS-61A, Commander STS-37) and Tony England - W0ORE (Mission Specialist STS-51F), both appeared in person to describe their amateur radio experiences in space. Astronauts Bill McArthur - KC5ACR (Mission Specialist STS-58), Ken Cameron - KB5AWP (STS-37 and STS-56), Jay Apt - N5OWL (Mission Specialist STS-37 and STS-59) and Ron Parise - WA4SIR (Payload Specialist STS-35 and coming STS-67) visited via crystal-clear telephone patch.

The SAREX Working Group members briefed us on their reflections and visions: Roy Neal - K6DUE, SAREX Working Group Lead

Frank Bauer - KA3HDo, AMSAT VP for Manned Space Programs

John Nickel - WD5EEV, AMSAT Assistant to VP for Manned Space Programs

Lou McFadin - W5DID, SAREX Principal Investigator

Rosalie White - WA1STO, ARRL Educational Activities Division

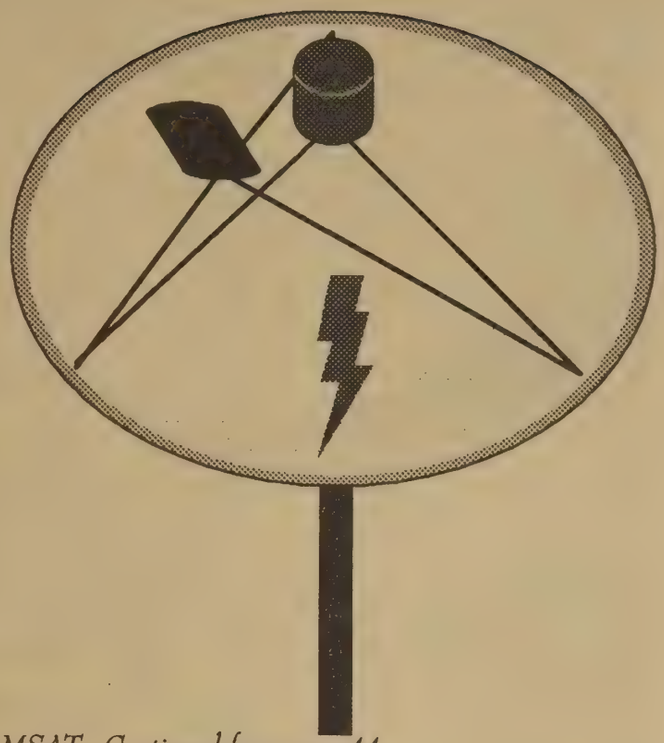
Continued on next page

COLUMBIA AMATEUR RADIO ASSOCIATION (CARA)

* CLUB MEETING: 4th. Tuesday of the month at &;30 pm. at the County's Howard Bldg. on the Court House Drive in Ellicott City.
* NET: 147.39 Repeater at 8:30 pm. each Tuesday except for meeting nights.
* YOUTH NET: 147.135 Repeater at 7:30 pm. every Thursday.
* REPEATERS: 147.735/147.135 (Cross-linked to 222.32/223.92);
* 147.990/147.390 (Direst Dial 911); 222.32/223.92 (Cross-linked to 147.735/147.135); and 443.275/448.2275.
* CARA BREAKFAST: 9:30 am. on the 2nd Saturday of each month. Contact Dionne Frank - KA3ZDL, (410) 531-2933.
* INFORMATION: Bob Scarburgh - KC3EV, (410) 465-2421

CARA is busily preparing for Field Day in June. Al - N3AC has been holding antenna building parties and has already built a 15m YAGI. Training sessions for those who signed up to participate will soon be scheduled. Again, this year, members were involved with the MS Walk-A-Thon on April 10th. Upcoming events include the Safe Roads Tour on May 7th, the Columbia Triathalon on May 22nd and the National Amateur Triathalon Championships on August 14th. The CARA pool party will be at the home of Larry - AH6AX and Linda - KA3KSM Wandel in Sykesville on June 11th, between 2 and 6 pm. Our other popular social event, the Saturday breakfasts, has really been growing. The last three meetings have averaged 25-30 persons. We are now meeting at Jilly's in the Enchanted Forest Shopping Center in Ellicott City. Another activity that is beginning to gain momentum is the fox hunts, held every 2nd Saturday starting at 12 noon. Some of the members are really getting into it!

73's, Jean Williams - KB3AOT



AMSAT - Continued from page 44

Doug Loughmiller - KO5I/G0SYX, AMSAT Past President

Bill Tynan - W3XO, AMSAT-NA President & Past Member SAREX W.G.

The educational panel included individuals from two schools who made 2-way contact with the orbiting astronauts:

Steve morton - AA8HH, Seven Hills Schools (Cincinnati) Coordinator

Casey Morton - AA8MC, Student, Lotspeich Elementary (Cincinnati)

Charles Sufana - AJ9N, Ernest Elliott School (Indiana) Coordinator

Julie Sufana, Student, Ernest Elliott School (Indiana)

We shared the excitement of the youth. Many realized for the first time that they too can submit an application and proposal to achieve a scheduled SAREX contact for their school by first contacting the ARRL.

Missing were the fireworks and fog machines. However, in peering at the many students, one could see it in their eyes.

73's, Pat - WD8LAQ

CARROLL COUNTY AMATEUR RADIO CLUB

* MEETINGS: 2nd Monday at 7:30 pm., Carroll County EOC; Washington Rd. (Rt. 32) 1 mile north of Route 97, Westminster, MD.
* REPEATERS: 145.41 MHz, 449.875 MHz, 53.090/52.090 MHz.
* MAIL: CCARC,Inc.; P.O. Box 2099, Westminster, MD 21158
* BBS: K3ZPN, 145.03 MHZ.

All are welcome to any club meeting anytime you are in the area, or give us a shout on any of the repeaters.

The Carroll County Amateur Radio Emergency Team worked the MS Walk-A-Thon on Saturday April 9th. We had 15 communicators: Doug/N3CWG, Rich/N3JIA, Bob/N3MBY, Steve/N3SB, John/N3RET, Andy/N3MCB, Mike/N3RAO, Peter/N3MGB,Wil/N3LEC, Walt/N3RKI, John/N3REV, Mike/N3KTX, and our three NCS operators were: Lynn/N3OQG, Larry/WX3F and Phil/KE3FL. The group received many thanks for a job well done. (The pizza wasn't bad either!)

The gavel was passed to our new President, Larry/WX3F at the beginning of the meeting. We had six visitors to our meeting, only one of which was a HAM. We were informed that the order for the 6-Meter crystals is in. We expect that this means that our new 6-Meter Repeater will start getting a workout. The by-laws committee will have the new proposal in the mail to all members this month so that we can vote on it next month. The club station committee chairman, Andy/N3MCB in formed us that the antennas need work and that in the fall he will be heading off to college and the committee would need a new chairman. We finished with a CQ Video: "Getting Started in Ham Radio". If you haven't seen it, you really should! Advertise and get those prospective HAMS to come to a meeting!

73,s Phil/KE3FL

GREEN MOUNTAIN REPEATER ASSOCIATION

* MEETINGS: Board of Directors, Last Monday of each month.
* REPEATERS: KD3VR-146.61 (Cheverly) K3GXF-146.88 (Greenbelt)
* LUNCHEON: First Saturday of each month at Fountain Cafe, in the Laurel Shopping Center Mall, U.S. Route 1 (Balt.Ave.) and Cherry Lane. Starts at 11:30 am.
* MAILING: GMRA; P.O. Box 429; Riverdale, MD 20727
* INFORMATION: Boyd Nelson - KZ3Z (301) 434-0934

GMRA would like to welcome all of it's members and fellow Amateurs to this beautiful Springtime of the year. We shall all remember what Mother Nature did to us this past winter. She bit at our noses and ears with frigid temperatures and now she caresses us with beautiful blossoming trees and fragrant flowers. Everything is springing to life, including our repeaters, with mobile operators as they tour the countryside, surveying the breathtaking sights.

Speaking of mobile communicators, Derek - N3RQS (new call) and his wife, Sally - VE3VJU/W3, have been treating we "Landlubbers" by talking with us on the 146.88 machine from their plane while flying high in the sky. Derek and Sally hail from Canada and own their own plane. They are a delightful young couple and we are so happy to have them with us. Derek's call was VE3VJV, to those that didn't know and Sally is studying her code to get her new call. Good luck Sally.

Over the years, in Amateur Radio, many families, Fathers, Mothers and children have joined together in this hobby. Now since the advent of Codeless License Class many more are joining together. GMRA, seemingly, has caught the epidemic. (Please forgive me, to those I am unaware of, in the mention to follow.)

Continued on next page

METROVISION AMATEUR TV CLUB
FAST SCAN-COLOR-ATV

* MEETINGS: Quarterly: Call for next meeting time and place.
* REPEATER: WA9GVK/4 (Video & Audio) 425.431 MHz in; 438.444 MHz out. Also accessible on 144.970 simplex audio.
* ON-THE-AIR: Sundays (ATV NET) at 8 pm. - Wednesdays (Ragchew) at 8 pm.
* MAILING: Metrovision, Inc.; P.O. Box 8231, Falls Church, VA 22041
* INFORMATION: Jim - KA4CKI, (703) 494-6342 or Tom - KO4OX (703) 752-2100.

The new slate of Metrovision officers for 1994 include the following:

President: Jim Tury - KA4CKI
Vice President: Tom Harmon - KO4OX
Secretary: Dick Logan - WB3EPX
Treasurer: Bruce Brown - WA9GVK
Technical Secretary: Bernie Keiser - WD4O

These new officers began their tour of duty as of January 1,1994.

An experimental horizontal beam antenna will be tested out at the repeater site in the near future. We will let you know what the results are. We are hoping that this experiment will improve our overall performance on ATV. Keep your fingers crossed. For the time being, horizontal polarization at the repeater site will only be on the receive side. If the tests are successful, horizontal polarization will be installed on the transmit side. At that point, we will all be able to rotate our ATV antennas for horizontal transmit and receive.

I am hoping that our members and friends will pass on technical and personal information to me so that I may use that information in future Auto Call articles. Please help out if you are able. Any information will be most appreciated.

The photograph accompanying this article is from the Metrovision March 1994 meeting.

See You On ATV. 73's, Dick

GMRA - Continued from page 46

Here are a few...C.T. - K3GXF , Sue N3RWI, C.T.'s wife and their sons, Steve - N3GVK, Carey - N3GYB and Carey's son Colin who is awaiting his Call Sign. Joe - KD3VR, Alice - WB3AOA, Joe's wife and their son J.P. - KE3EU. Paul - W3HFA and his wife Phyllis - N3JAA, Roy - K3UBI and his wife Dorothy - N3RWG, John - N5SJZ his wife Debbie - N5SKA and Derek - N3RQS and Sally - VE3VJU/W3.

Now I feel sure there are many more, but what really brought this to mind was C.T. - K3GXF who has been an Amateur for many years along with his wonderful wife, Sue, whom has had to listen to him all this time, finally decided to get her license along with Dorothy, Roy - K3UBI's wife, who has had to listen to the same.

GMRA's lunch get-together at Shoney's on April 9th was well represented and the May meeting will be held at the Laurel Center Mall. Please come!

73's, Ken Easton-N3HLY

MOUNT VERNON AMATEUR RADIO CLUB

* MEETINGS: Second Thursday of each month, 7:30 pm.(except December). Mt. Vernon Governmental Center; 2511 Parker's Lane, Alexandria, VA 22308
* REPEATER: WD4PDP/R 146.055 input - 146.655 output
* NETS: Every Tuesday at 9pm. Starts on 2-meter then moves to 10-meter on 28.408.
* INFORMATION: John - KI4HK, (703) 780-2882 or Julie - KD4WSZ, (703) 799-9466
* TRAINING CLASSES: John Forrest - WZ4A, (703) 971-3905
* TESTING: Second Saturday of each month, 9am.; Robert E. Lee RECenter in Lee District Park, 6601 Telegraph Rd., Alexandria, VA
* MAILING ADDRESS: Mt. Vernon Amateur Radio Club (MVARC); P.O. Box 7234, Alexandria, VA 22307

Mark you calendars: FIELD DAY - JUNE 25-26, 1994.

MVARC had an exciting April meeting. Steve Smith and Lou Laurden, engineers from the Naval Research Laboratory, spoke on the use of "HAM" technology to provide reliable, low cost, military operations. They demonstrated point to point communication through satellite in an elliptical polar orbit. Interesting, informative and fascinating.

The guests we welcomed in April were: Woody Stewart, Jeanne Osso, Dan Gilliam, Patty Foster, Chuck Fuller Maurice "Munch" Potter and Bill Hamilton - KE4KGP. Please join us again!

Not only did MVARC have a number of visitors in April, but the membership attendance was gratifying. Spring must be in the air.

MVARC worked the Mt. Vernon Hospital/ George Washington Pkwy. 15K race, NVA EMS Drill (Alex) and the Cherry Blossom Parade in April. Busy hand-held transceivers. Keep those batteries charged!

MVARC looks forward to participating in various springtime events. Please call Steve - WB4EEA , 780-7248, for details concerning the spring through fall calendar. Be sure to ask about the flyer he has listing the dates and events. Also, listen for the Public Service Announcements on the 145.91 repeater, Wednesday evenings at 8:30 pm. (2030 hours).

Testing: second Saturday of every month. Code and written, all levels. Held at Lee District Park in Alexandria. No charge and walk-ins are welcome. Call Frank - N4GUS at (703) 455-1510 for information or if you are interested in being a VE or helping at the exams. You do not have to be a VE to help out. Please arrive between 9 - 10 am. for testing.

MVARC's Next Meeting: June 12,1994.

73's, Julie - KD4WSZ

THE NORTH POINT FM ASSOCIATION

* MEETINGS: 2nd Saturday of each month at Lord Fairfax Community College, Middletown, VA.
* WEEKLY NETS: District 1 ARES Net: Sundays at 8 pm. on 145.21; North Point 440 Net. Thursdays at 8:30 pm. on 449.075.
* REPEATERS: 53.67 - KD4JBY & 449.075 - KB4KRO
* PACKET BBS: 145.73 - BBSD1 (WD4RPV-5)
* INFORMATION: Alan Moeck - WA2RPX, 869-1117
* MAILING ADDRESS: P.O. Box 327, Stephens City, VA 22655.

The North Point FM Association received word in April that we had received our ARRL Affiliation. This was the last thing we needed to finally feel like part of the "family". First FAR,

Continued on next page

North Point - Continued from page 48

then ARRL. We'd like to thank John Kanode - N4MM for all of his help with our endeavor to join the ARRL. We hope to be a part of both organizations for a long time to come.

Spring has sprung, April has come and gone, and the busy season has certainly arrived. NPFMA members found themselves busy with many projects this month, and fortunately, the weather cooperated with most of them.

The MS Walk-A-Thon was held in Winchester on April 10th. Members of the NPFMA provided communications for the event, which went very smoothly. One young man had wandered off the path and was declared missing at the end of the event; however, he was found by his father after about 15 minutes of searching, so everything turned out okay in the end. As has been the usual case with this event, the weather was not overly cooperative, but at least it wasn't terribly cold and rainy. Many thanks go out to N3NVF, KD4JBY, WA2RPX, KD4IEW, KR4DO, KQ4TL and KD4AUT for assisting me with the event.

The very next weekend found Tom - KR4DO coordinating a Crop Walk in Front Royal. This was the first time that Ham Radio had participated with this event, and everything went very well. Tom was able to get a good feeling of how well simplex would work in the Front Royal area, which will assist him with his duties as Warren County EC. Helping Tom with this event were N3NVF, WA2RPX, KD4AUT, W4ZGN, WB4VQQ and N2ECO.

On April 23rd. , members of the NPFMA assisted the Shenandoah County EC (Jerry - W6IHG) with communications for the Dogwood Half-Hundred endurance race. This was an excellent opportunity for members to try setting up shop in less than perfect conditions. Experience is a great teacher! Among the others, the following NPFMA members assisted with the event: WD4RPV, N3NVF, KD4JBY, N4VJK, KD4AUT, WA2RPX, KR4DO and KQ4TL.

Bill - KD4JBY has been busy working on his 6-Meter repeater. The repeater is on the air on 53.67 MHz. As I write this, he is making plans on moving it out of his house and up to a more permanent site at Chester Gap by the end of the week. This should provide the Shenandoah Valley with a useful and wide coverage 6-Meter repeater. The repeater uses a new CAT-1000 controller, and it sounds nice.

Marc - KB4KRO has done some work on his 440 repeater, and it is sounding as good as ever. If anyone is interested, check into the North Point 440 Net on Thursday nights. With a good antenna or a bit of power, it's very possible to hit the 449.075 machine from the DC area.

The FOAKS node on 145.73 has had some radio problems during the last part of April; hopefully that will be squared away by the time this is published. Also in the works are nodes in Chester Gap and north of Winchester. They will be further down the road, but we hope to have those up by the end of the year. This will help get total coverage on 145.73 for the entire northern part of the Valley, which in turn will assist the NWS with their collection of weather information. As a matter of information, the FOAKS node will be using the call sign of KB2CEV-2 when it's back in full service. Steve - KB2CEV has devoted an awful lot of time and energy into making that node work properly, and since he lives just down the road, it will be easy for him to maintain it.

This is all for now - see you next month.

73's, Sean - WD4RPV

REMEMBER

Our Deadline is the 5th of the Month Prior to the Month of Publication

PRINCE GEORGE'S WIRELESS ASSOCIATION

* MEETINGS: First working Tuesday of each month, 7:30 pm.; American Red Cross Bldg.; 6206 Belcrest Rd., Hyattsville.
* CLUB STATION: K3CEZ
* MAILING: 4109 Kennedy St., Hyattsville, MD 20781
* INFORMATION: Frank Holton - WA3ZMW, (301) 927-1245

PGWA had it's monthly meeting on Tuesday April 5th with a terrific turnout of members. There was however a seemingly sad occasion as John Reiner - WB3FUL resigned as a Club Member. John and his family are moving to South Carolina. John has been a member of our Club for 17 years or more. We will surely miss him as he has helped the Club considerably. Good Luck John!

As this article goes to press, we will already have participated in the Annual Crop Walk, sponsored by the First Hyattsville Methodist Church. Our Club Members will act as communicators, along the walking and jogging routes, in case of any occurring mishaps.

Field Day will be the next exercise for PGWA and we are excitedly looking forward to this event, like many other clubs across the country. We usually set-up behind our Club Station which is past the rear parking area of the Red Cross Bldg. We use portable power on HF and VHF. Our usual set-up group consists of Charles - KA3COT, Dan - W3SWD, Frank - WA3ZMW and Ken - N3HLY. Possibly more will participate. Also, the members will be getting set-up for a Simulated Emergency Test (SET) exercise either before or after Field Day.

PGWA is excited about our Club Packet Station that WB3KXL - Dave Black has helped to set-up along with our President, Frank - WA3ZMW. We are happy to have Chuck - N4OSD join us with his knowledge and we would like to congratulate Chuck as the newly elected President of the Foundation of Amateur Radio, Inc. Here's hoping the meeting on May 3, 1994 will have had a good turn out.

73's, Ken Easton - N3HLY

THE SHENANDOAH VALLEY AMATEUR RADIO CLUB

* MEETINGS: First & Third Fridays of each month - 7:30 pm.
* PLACE: The Collins Bldg.; 2129 Grace St., Winchester
* REPEATER: 146.22/82 W4RKC
* NET: SVEN 7:15 pm. Daily - 146.22/82
* INFORMATION: George Ritter W4UGX, (703) 662-0157
* CLUB PRESIDENT: Irvin Barb - KD4BHV
* ADDRESS: P.O. Box 139, Winchester, VA 22604

This spring has been a busy time for the SVARC. Members stayed busy with Public Service events. Event coordinators were:

The Sherman Gap Ride Irv Barb - KD4BHV
Doo Dah in the Park Walt Johnson - WA4HVU
Dogwood Half-Hundred Hike Jerry Pixton - W6IHG
Apple Blossom 10K Run Irv Barb - KD4BHV
Apple Blossom Fireman Parade Irv Barb - KD4BHV
FEMA Comm Van Demo at the Park Fred Wetzel - W4KRT
Spring Fling Biathlon Walt Johnson - WA4HVU

A special thanks to you guys and all who helped.

April was also a big month for memberships. Eight new member completed the membership process and were voted in at our April 15th meeting, a Club record. Total membership is now well over one hundred.

Bob Neimeyer - W3MMC and Mary Ann Foble - N8ODZ (one of the new members), along with her husband, Bill - KB8MMD, were dinner guests of our Club President, Irv Barb and his wife Jane. A photo session produced the pictures that will be used with Mary Ann's article to be published in QST this December entitled "Santa is a Ham, A Christmas to Remember". The article describes Bob and Mary Ann's tremendously successful SANTA Net conducted last Christmas.

Continued on next page

Bob Niemeyer, W3MMC (Santa), and Mary Ann Foble, N8ODZ (Santa's Helper)

Ben Head, MRV (Mobile Radio Van), Team Chief explains systems to Mark Sunderlin, KD4HRI ans Stan Monish, KD4HRJ

Several SVARC members along with Fred, W4KRT (center) assist with hosting visitors to the FEMA Emergency Communications demonstration

ANTIETAM RADIO ASSOCIATION, INC.

* MEETINGS: First & third Tuesdays at 8 pm. (All months except July & August when meetings are on the first Tuesday only at E.O.C. of Washington Co., MD Courthouse Annex, Summit Ave. (Alley Entrance) Hagerstown, MD.
* PRESIDENT: Steve Blevins - N3MVL, (301) 797-2767
* VICE PRES.: C.F.W. Anderson - NF3X, 733-3061
* SECRETARY: Don Cripe - KE3MM, (717) 762-8223
* TREASURER: Page Pyne - WA3EOP, (301) 714-0688 (Maintains Club Office)
* NETS: Tuesdays 146.94 - 7 pm. Open to all; Wednesdays 447.975 - 7 pm. Open to all; Thursdays 147.09 - 7 pm. Regular Net & Swap Net Y'ALL COME!
* MAILING ADDRESS: P. O. Box 52, Hagerstown, MD 21741

The members of the Antietam Radio Association have a real busy season that started with communications for the Hawk Triathalons, a Bicycle Race, a 10K Run and a great

Continued on next page

SVARC - Continued from page 50

A real highlight for the period was the hosting by the Club of two of the Federal Emergency Management Administration, FEMA's Huge communications vans in the park at Apple Blossom's "Weekend In The Park" activities. We thank Fred - W4KRT for making that possible. Hundreds of people, as well as, our Club Members were able to see the "State Of The Art" systems in operation. It was an experience to remember.

With Rick Choy's and Andy Hetz's help we now have an operational GMRS UHF repeater operating in the Winchester City area which will provide a local interface between amateurs and REACT personnel during times of emergencies. Several SVARC members have equipment and are all licensed for this service. The interface feature was exercised during the Apple Blossom Festival in town.

73's, Walt - WA4NVU

Antietam - Continued from page 52

Hamfest already passed by the time you read this. We were happy to give away three great prizes at the Hamfest, the FT-840 HF Xcvr by Yaesu, the FT-2400H by Yaesu, a Two-Meter mobile and an Alinco DJ-180 HT as our top prizes this year.

Next of course will be Field Day and the ever growing Maryland-DC QSO Party on August 20th and 21st.

The closing event of summer is another big endeavor for us. We are planning to right a wrong. Hiram P. Maxim - W1AW, the founder of the ARRL is buried at Rose Hill Cemetery in Hagerstown, MD. Since his death in 1936, "The Old Man" has not had an independent grave marker at the site. We have the Hamilton Family's (owner of the plot) permission to fund, design and place a brass marker for H.P.M.

]This project will cost us about $800 or so and fundraising has started for this special project with the sale of 50-50 tickets at the Hagerstown Hamfest. Other funding, we hope, will come from individuals who wish to donate a few dollars to the project. We are NOT looking for large amount donations, from any one person or organization, but feel this project should be funded by the Club and others who care at the grass roots level. Individuals wanting to donate a few dollars to this project may send a check payable to "Antietam Radio Association" to HPM Marker Project c/o Antietam Radio Association, P. O. Box 52, Hagerstown, MD 21741.

It is anticipated that a public gravesite dedication of the marker will be conducted on the weekend of Sept. 2nd at the cemetery.

The other part of this activity is a multi-band special event station which will offer a special certificate for those who contact W3CWC during the special event. Excess donations collected (if any) over the cost of the marker and dedication ceremony will be used to defray at least part of the cost of the special event certificate program. We hope everyone will be listening on HF and work our special events stations.

Recently Larry - N3QBK, his son Lauren - N3RTJ and myself gave a Ham Radio presentation to a Weblo Scout Pack. Much to our surprise all the scouts that attended the presentation are now seeking their Ham License. Most are 10 years of age. We wish them all luck!

73, Page - WA3EOP

LAUREL AMATEUR RADIO CLUB
A volunteer Examiner Coordinator

* MEETINGS: 4th Wednesday of each month (except Nov. & Dec.) 8 pm. at the Laurel Armory, on the corner of 5th and Montgomery Streets, Laurel, Md
* SOCIAL: 2nd Wednesday of each month (except Dec.) Call for directions.
* NETS: 1st, 3rd and 5th Wednesdays - 8:30 pm. on 147.225 (+600), no tone.
* MAIL: P. O. Box 3039, Laurel, MD 20709-0039
* EXAMS: 3rd Saturday of each month - 10 am. at Maryland Radio Center.
* INFORMATION: Jim - WI3N, (301) 725-6829 or Pud - W3DQI (301) 498-6293.

The month of April brought out the Laurel ARC members for two big annual events, the Montpelier Festival and the Laurel Main Street Festival, which have traditionally been provided communications support by the Club as a public service. At both events Club Members set up a booth to demonstrate Amateur Radio to the public and to serve as a Net control station for festival communications. Charles - KD3ZS and Jim - WI3N provided the HF antenna and rig for the Montpelier Festival, and HD/N3LFL, we got to show-off our new club hats with personal call signs at the festivals.

Continued on next page

VIENNA WIRELESS SOCIETY

* MEETINGS: 2nd & 4th Fridays of each month, 7:30 pm; Vienna Community Center, 120 Cherry Street S.E., Vienna, VA
* REPEATERS: K4HTA/R 146.085 in/146.685 out, 4343.375 in/448.375 out.
* NETS: Vienna Emergency Net every Wednesday at 7:30 pm., 146.085/146.685; Pow Wow Net every night (except meeting nights) at 9 pm. on 228.444 Mhz; Slow Code every night (except meeting nights) at 8:30 pm. on 28.390 Mhz.
* INFORMATION: Brian Bayus - N1KCE, (703) 264-1180
* TRAINING CLASSES: Paul Wilkins - AB4CY, (703) 560-2779

During the month of April, the VWS STS 56 QSL project was completed. Chaired by Chris Bayus - KD4FBU with much appreciated assistance from Barry Bennecoff - KD4DGQ, Rusty Haddock - KD4WLZ, Mark Murray - WX3H, Jorge Thevenet, Bernie Wimmers - KC4YMP and yours truly, the committee handled all of the QSL cards for the STS 56 mission of the Space Shuttle Discovery. A great experience and very interesting to be on the "other side" of QSL'ing. Found out what to do with IRC's at the Post Office when they are dated 1980!

VWS was busy with Public Service during the month of April. A fine turnout of VWS Members for the Herdon/Reston MS Walk-A-Thon on April 10th, spearheaded by VWS Members Jorge Thevenet - KD4DGO and Gene Jacob - KM4FJ. On April 24th an equally good showing at the Leesburg March of Dimes Walk-A-Thon. Special thanks to George Saunders - KR4MU, who in both events was a bicycle mobile station. Not bad for an OM!

The month of May will have its share of exciting "outdoor" activities, highlighted by a first, in several years, "Fox Hunt" to be held on May 29th. Should be great fun!

Dave Cockran - KE4BAF has graciously assumed the duties of VWS Pow-Wow Net Manager. Assisted by a group of "Regulars", including Barney Novean - WA4HIM and Clyde Fisk - KB4JWU. Dave brings up the net every night at 9:00 pm., local time. Stop in and join the "gang"...all are welcome.

73's, Brian - N1KCE

DON'T FORGET

Please include your Club's Header information with your Club column.

This will keep our files updated!

Laurel - Continued from page 52

Several weeks ago Joe - NA3T, a Laurel ARC member, began investigating what had happened to the historical marker that once existed on U.S. Route 1. It noted the first telegraph message by Samuel F.B. Morse, "What hath God wrought". After many inquires, the sign was finally found by the State Highway Administration and, after some refurbishing, will be reerected near Beltsville, MD. A special ceremony will be held on May 24,1994 to commemorate this special event. A BIG THANKS to Joe - NA3T.

On April 16th, the Laurel VE team tested 57 individuals. Ninety seven elements were administered and 40 individuals upgraded.

Field Day plans for June 25-26th are underway and Jim - WI3N, LARC President, says that the Club will set up at the usual site near the Supplee Lane Park off Brooklyn Bridge Road. Everyone is invited to come out and join the fun!

73's, de Roger - N3MIJ

NORTHERN VIRGINIA FM ASSOCIATION

* MEETINGS: Fall Winter Spring
* WEEKLY NETS: NVFMA, Wed. 8pm, 146.79 - ARES, Sun. 9pm, 146.91 - Equipment Clinic - 1st Wed. of the month, 7:30pm., 146.79
* REPEATERS: 52.37/53.37, 146.19/146.79, 146.31/146.91, 222.50/224.10 XLink, 222.74/224.34, 449.75/444.75, 1272.1/1292.1
* MEMBERSHIP INFO: Ann Herlich - KD4GSU, (703)481-1458
* MAILING ADDRESS: NVFMA, P. O. Box 486, McLean, VA 22101

I want to take this opportunity, on behalf of the NVFMA, to welcome all of our "new" members to the "Association". We appreciate your support and hope you find this very fine repeater system to your satisfaction and pleasure.

April's Board of Directors Meeting was held at the home of Norm Rosenthal - KB4VLP.

Highlights, among the many topics discussed are as follows:

The Bull Run Mountain remote receiver is now fully operational and serving us well; providing extended coverage to the north and east.

Some audio circuit modifications were installed at the Bull Run Mountain Site including a tone board and ID'er. These improvements will be incorporated into our other repeaters pending "Beta" testing, for awhile, at Bull Run Mountain.

The 444.75 MHz transmitter experienced problems in the driver/power amplifier. We regret any inconvenience due to it being "off-the-air". Delay in returning this popular repeater to full operation is due to delays in part(s) delivery. It should be fully functional by the time this is published.

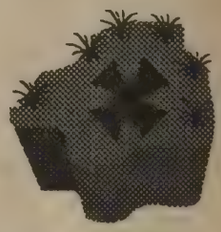
Our Technical Activities Group (TAG), KM4OI, Sam et al. has corrected the problem(s) at the Beacon Hill Site. Reliability of the power amplifier has been improved by running the "Finals" at reduced power. No significant degradation of coverage should be noticed by changes incorporated.

In the near future, the 146.79 MHz repeater will be relocated within the Massey Bldg., Fairfax, VA. The new location offers a spacious air-conditioned room. General and preventative maintenance will be performed on the equipment by volunteer members of NVFMA.

SILENT KEY: On February 28,1994 Captain John E. Fairbank of McLean Virginia passed away at age 89. He was buried with full military honors at Arlington National Cemetery.

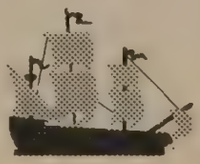
73, Ann - KD4GSU

REMEMBER



When planning your hard earned vacation, DON'T GIVE A THIEF THE KEY TO YOUR HOUSE!

Watch what you say over on the air. You never know who is listening!



4th Annual

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Upper Marlboro, Maryland

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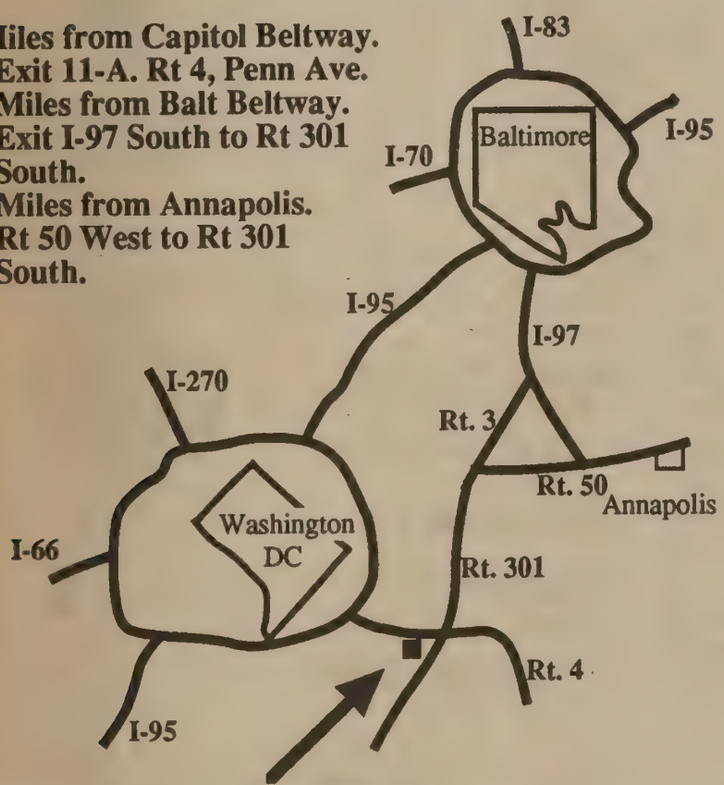

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General Admission	$5.00
Tailgate Space	$5.00
Indoor Tables	$25.00

Concourse, and main floor available.
Drive in loading on Saturday noon-6pm.
(Tailgate or Table includes One admission)

Sunday Tailgate Setup 6 a.m.
General Admission 7 a.m.- 2 p.m.

Talk-in on: 147.15 Repeater
(Courtesy Southern Maryland ARC)

Plenty of Parking

Indoor Tables by Advance Registration Only!
Send Requests to: Southern Patuxent Hamfest
PO Box 399, St. Leonard Md 20685
Call: (410) 586-2177 for Information.

The Shenandoah Valley Amateur Radio Club

Presents The

44th Annual Hamfest & Computer Show

(Electronics Flea Market Open To The General Public)

SUNDAY, AUGUST 7th, 1994

AT THE CLARKE COUNTY RURITAN FAIRGROUNDS IN BERRYVILLE, VIRGINIA

ARRL APPROVED HAMFEST

- GATE OPENS AT 6:00 AM
- GENERAL ADMISSION $5.00
- TAIL-GATERS ADDITIONAL $7.00 PER SPACE
- COMMERCIAL & INDOOR TABLES BY RESERVATION, FIRST COME, FIRST SERVED
- COUNTRY HAM & EGG BREAKFAST 6 TO 10 AM
- CONCESSIONS & SNACK BAR AVAILABLE
- RURITAN'S FAMOUS CHICKEN & BEEF BARBCUE!
- VE EXAMS (SAME DAY)*
- TALK-IN 146.22-82 & 52 SIMPLEX, **W4RKC**
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Remember!
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by Rick Choy
N3HXT
Hamfest Chairman

*VE Exams 8 AM
At Cooley School
Across from Hamfest
All classes of licenses
Pre-registration requested
Limited walk-ins

For information and vendor registration and pre-reservations, call Irv Barb KD4BHV (703) 955-1745, Rt 3 Box 5385, Berryville, VA 22611
The SVARC is a non-profit, non-commercial special service organization dedicated to the furtherment of Amateur Radio communications

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OF MARYLAND

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VISA and MASTERCARD Accepted

Shack Sales

Non-commercial advertising of Amateur associated equipment is available to subscribers of AUTO-CALL at a rate of 3 cents per word - with a $1.00 minimum. Commercial vendors and non-subscribers rate is 17 cents per word - with a $5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate.

Estate sales for Widows assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Ads that will be running for longer than 1 month must be accompanied by a letter stating the length that the ad is to be run. Since no effort is made to investigate advertisers, no warranty can be applied.

ALL ADVERTISING & SHACK SALES - COMMERCIAL AND NON-COMMERCIAL SHOULD BE SENT TO:

Doug Allen, Auto-Call Editor
8008 Shadow Oak Lane
Pasadena, MD 21122
(410) 437-6258

Copy MUST be received by the 5th of the month prior to the month of publication.

FOR SALE: Collins KWM-2 and 516-2 winged, ... $550.
D-104 microphone, ... $60.
75S-3B winged with SSB and CW filters, $425.
Yaesu FRG-7 SWL receiver, ... $125.
Icom IC-02AT HT with magntic mount antenna, ... $150.
Standard "Horizon 25" VHF marine transeiver, ... $100.
All in excellent condition. George, KG6GA, (703) 757-2810.

MY HEROES: KC4YXB/M & WA4OGH! Thanks, guys, for being there on .79 and staying with me as I waited almost 3 hours for a tow truck at 3rd & "H" NW, in the dark and bitter cold of DC's snow emergency on 1/19/94, with a recent dose of insulin and no food. Things could have gotten WORSE...but you would have known and would have helped. TU VY much, AGN! DE NW3V.

FOR SALE: This space could be used to advertise your shack sale items. Contact the editor, Auto-Call Magazine.

FOR SALE: Tandy 2800HD laptop computer, 20MB hard drive, 1.44MB 3.5 floppy, 2400BPS internal modem, 2MB RAM, spare battery, AC adapter, carrying case. Call for Details (410) 329-6725

FOR SALE: Hallicrafters SX-28 and RBK-16 (milatarized S-36) receivers in clean working condition with manuals, cabinets and some spare tubes and parts. Asking $125 each or Both for $225. Joel Ekstrom - WW1UGX, (301) 365-3324.

FOR SALE: BEAM, TOWER, ROTATOR. Rohn 48ft. heavy duty self supporting tower, Hy Gain Th6-DXX beam, and Hy Gain Tailtwister rotator. Package $750. In Annandale, Virginia. (703) 978-6599 or (301) 953-5359.

SEND YOUR SHACK SALE ITEMS TO:

Doug Allen, Editor
Auto-Call Magazine
8008 Shadow Oak Lane
Pasadena, MD 21122

FOR SALE: Would like to sell the following Short Wave Rig as a complete unit: one each - Drake TR 7 Transceiver,, Drake PS7 Power Supply, Drake MN 2700 Matching Network, Low Pass Filter 52ohms, Heathkit Cannatta & Resistor HM 31, High impedance phone w/jack, microphone, cables for all of preceeding. I. Alvin Pasarew (410) 486-1126, Pikesville, MD.

FOR SALE: Radio Shack HTX-100, 10-meter rig; MFJ Deluxe Versa Tuner II, model MFJ-948; assorted extras such as cables, Radio Shack air-dummy-load, 10mtr dipole, etc. Manuals for everything. All in EXCELLENT condition and can be checked here on-the-air. All for a firm price of $290. Mel - WA3AGP, Laurel,MD (301) 490-3308

FOR SALE COMPLETE HAM STATION: Drake TR-7A, Collins 30L1 Linear, Drake MN-2000 ant. tuner, Health monitor scope, accessories, EZway tower, Ham bander, 14 elem. 2-meter antenna, Kenwood 2-meter gear. Prefer to sell as package. $1500 (301) 831-7538.

NORM'S ROTOR SERVICE
Rebuilt Rotors and Parts
5263 Agro Drive
Frederick, MD 21701
(301) 874-5885
Norman Jeweler - K3LYW

FOR SALE: KENWOOD TH225A 2-Meter HT with TSU-4 Tone Decoder, SMC Spkr/Mic, PB-1 12VDC 800 maH Battery, LH-5 Deluxe Leather Case, PG-3E Filtered Cigar Lighter Cord, BC-7 Rapid Charger, and Larsen 5/8 Mag Mount Antenna - guaranteed good as new - Call For Details: AG3V, (410) 329-6725.

DAVE'S TOWER SERVICE
In need of Antenna or Tower Work?
Installations, Upgrades &
Removal of Antennas and Towers
Dave Hixon - N3EJT
(301) 474-7405

FOR SALE: Glen Martin Engineering Tower - three 7 1/2 ft. aluminum sections with HAZER and winch. You can order more sections (deliverable by UPS) from Glen Martin (advertises in QST) to make 50-60 feet. ..... $200.
HAL Communications DS-3200 Computer with Hard Drive, PCI-2000 RTTY board and ST-7000 Packet board with 110 and 220 V. monitors. ..... $900.
TEN-TECH Paragon with all options and power supply, ... $1300.
AEA ISOPOLE, 144 Mhz, new in box $30. NEC 20in. Multi System (PAL/SECAM/MESCAM/ NTSC) TV, ... $375.
HITACHI VT-498EM Multi-System VCR, $325.
SONY V8AF 8mm Camcorder, ... $250.
TOKI 9ft. collapsible (like umbrella) Satellite Antenna, ... $350.
JANEIL RP180 Satellite Antenna mount with MD180 actuator, ... $25.
INFO-TECH M-6000 Multi-mode RTTY reader, ... $250.
SIX-FOOT Roof Tripods ..... $10 Each.
Most items in original cartons with manuals.
WA9-INK (202) 467-0053 (Fax on line - hold to talk)

FOR SALE: ICOM 24AT HT, 3 Battery Packs (BP84, BP82 & BP90), ICOM Speaker Mike, Radio Case and Charger. Original box with manuals, ... $360.
CALL John (703) 250-1035.

FOR SALE: NEW HY-GAIN T2X Rotator, NEW ROHN HEAVY DUTY TB-3 thrust bearing, ROHN 54' HEAVY DUTY self-supporting tower, NEW HY-GAIN 2BDQ 80/40 5KW trap dipole (approx. 85'). NEW PALOMAR 2K 1:1 6KW BALUN, NEW TEN-TEC 5061 1.5W Low Pass Filter. CALL FOR DETAILS - (410) 329-6725.

Be Wise and Advertise
in Auto-Call
We Get Results!

RT ELECTRONICS
RADIOS - SCANNERS - ANTENNAS
P. O. BOX 2123
WARREN, OHIO 44484
DISCOUNT PRICES AT RT ELECTRONICS
10/11 Meter Radios, Antennas, Scanners, Power Supplies and more. 2-Meter Base Antenna - $29.95; 144/450 Mhz dual band Base Antenna from $59.95.
Send for FREE FLYER or PHONE: (216)369-1789 (8am. - 4pm. EST)

FOR SALE: YAESU FT-1000 - 160m-10m Transceiver with dual receivers. Less than 20 hours total transmit time @ 30W. Mint condition, must sell, $2,750. David KK4FL (703) 361-3019 Mannassas, VA.

FOR SALE: TANDY 1000TL desktop computer, 32MB Hard Drive, 720MB 3.5 floppy, 360MB 5.25 floppy, 2400BPS internal modem, Mouse,
CM-11 color monitor, desktop power with/ surge protector, printer cable, with MS-DOS 6.2, Norton Utilities 7.0, Procom Plus 2.01, Word Perfect 6.0 - Guaranteed like new - $750.00 (410) 329-6725.

URGENTLY WANTED - Please check your attics and shacks for old COLLINS RADIO stuff. Anything: knobs, filters, cabinet, etc. Radios like 75A4, KWS-1, S-Line units like 30L1, 30S1, 75S, 32V, 51S1, 312B5, whatever. Old-Timer like to play with this stuff, even though I am disabled. Send to Cliff Watson (ex-K4ADU)
5224 Morris Avenue, Columbus, GA 31904. (706) 327-9512 Thanks!

HELP! WANTED: Manual for Heathkit HW 101 needed or access to make copy form yours. Please contact: Ro - WB4NWG (703)594-2812.

YOUR SHACK SALE AD COULD BE HERE!

JWO SERVICES - DISCOUNTS ON ALL!
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we take back all unused materials!
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Latest! New! ANTENNA & TECHNIQUES FOR LOW BAND DXING (List $20) ONLY $18.25.
New! 1994-1995 ARRL REPEATER DIRECTORY (List $6) 1-9 Only $5.50; 10-Up Only $5.15.
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SEND YOUR SUBSCRIPTION RENEWALS TO:

Auto-Call Magazine
P.O. Box 7612
Falls Church, VA 22040-7612

WANTED: Crystal cover for Johnson Ranger and modulation transformer. Also want amplifier, non-working, Swan Mark II, Heathkit SB-221, Hallicrafters HT33B, or Henry. Johnson 500 or Kilowatt, Collins AM Transmitter. Original manual for Heathkit SB-100. Skematic for Gonset GSB-100, Tubes 4CX350A, Eico 730, Webster Bandspanner and PK-232. Pleas WRITE: Chuck, P.O. BOX 934, Dahlgren, VA 22448.

BUYING SURPLUS Vacuum tube inventories - Large or Small

WANTED TO BUY: Dummy load up to KW HF Transceiver, GAAXIE 550 Accessories.
CONTACT: Milton Levy - W5QJT,
(813) 791-4720.
2310 Denmark St., Apt. 62,
Clearwater, FL 34623.

MID-ATLANTIC ANTIQUE RADIO CLUB
Become a part of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707 - Phone (301) 725-4229

WORLD RADIO - Amateur Radio's monthly newspaper can be delivered to your doorstep for only $14 per year ($24 overseas). Get the latest on how your fellow Amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station appearance, Traffic,VE Exams, International News, Send your subscriptions to WORLD RADIO, 520 Calvados Ave. Sacramento, CA 95815

Comments or Suggestions?
Send To:
Doug Allen, Editor
8008 Shadow Oak Lane
Pasadena, MD 21122

THE AMATEUR RADIO NEWS SERVICE
is an organization of publishers and editors of Amateur Radio Newsletters and members engaged in public relations. Its purpose is to assist editors in anyway possible. For more information, write to Lee Knirko - W9MOL, Amateur Radio News Service, 833 Park Plaine, Park Ridge, IL 60067

FOR SALE: COMPLETE PAGE SCANNER
Full page sheet feed scanner, includes interface, image scanning & editing software, OCR software manuals & cable ..... $300.
Contact: Doug Allen - N3FHM (410) 437-6258

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1520 Jutewood Ave. Hyattsville, Md. 20785

Subscribers to Auto-Call Magazine
You can advertise your for sale items in the Shack Sale section for as little as $0.03 cents per word. See details on next page.

WORLDWIDE DISTRIBUTION

HAM RADIO OUTLET

Curtis Brown
Manager
WB4KZL

14803 Build America Drive, Bldg B
Woodbridge, VA 22191
(703) 643-1063, 1-800-444-4799
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YOUR FREE 92 PAGE CATALOG

AUTO-CALL POLICY

PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is reformatted to preserve uniformity of style in the magazine. We use Word Perfect 5.1 for Windows for word processing, Ventura Publisher for page layout and CorelDRAW 3.0 - CD-ROM for Graphic Design. We also use a Full Page Scanner with WordScan OCR to scan text and graphic's directly into Ventura Publisher. Photo Styler is used to enhance and halftone images. We will accept 5.25" or 3.5" MS-DOS diskettes is ASCII format. Type all headers, bylines and body text flush left with no margins. Single space after periods, do not indent paragraphs and double space to begin new paragraph. If you have any questions please feel free to contact: Doug Allen - (410) 437-6258.

In determining space requirements, figure about 700 words per page (50 lines at 12 words per line) - not including the space taken up by headings, photographs, etc. Either black and white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio, (Copy space is 7" wide by 9" high). Copy can be reduced or enlarged as necessary.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack sales will NOT be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the full name of the advertiser. If the full address is not included, we prefer to include the city along with the telephone number so that readers will know whether a long distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, please phone the Auto-Call editor at (410) 437-6258, Pasadena, MD.

ADVERTISING

SHACK SALES

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a $1.00 minimum. Commercial vendors and non-subscribers rate is 17¢ per word - with a $5.50 minimum.

Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - $1.00 per column inch for non-commercial ads, $5.50 per inch for commercial vendors and nonsubscribers

Commercial vendors should include the ad size and length of run (e.g., 1 year, 6 times, etc.) on company letterhead and it must be signed by the person authorizing payment for the ad. Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the shack sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be prepaid for at least the current month.

Rates per Issue

Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	$75.00	$90.00	$100.00	$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy
Extra charge for halftoning photos
and for in-house artwork and layout.
Copy must be received by the 5th of the month preceding publication date.
(e.g., Copy for November issue must be received by 5th October)

ALL ADVERTISING MUST BE PRE-PAID

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STREET _____

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$30 in U.S. $42 elsewhere (U.S. funds). Individuals age 65 and over, upon submitting one-time proof of age, may request special dues rate of $24 in the U.S. $36 elsewhere in U.S. funds. Persons age 21 and younger may qualify for special rates, write for application.
For postal purposes, fifty percent of dues is allocated to *QST*, the balance for membership.

VISA, MC, AMEX, DISCOVER # _____

Signature _____ Expires _____

The American Radio Relay League
225 Main St.
Newington, CT. 06111 USA

AUTO-CALL

Atlantic Division Director
Hugh Turnbull, W3ABC
6903 Rhode Island Avenue
College Park, MD 20740
Phone: (301) 927-1797

Roanoke Division Director
John Kanode, N4MM
Rt.1, Box 73-A
Boyce, VA 22620
Phone: (703) 837-1340

AUTO-CALL Magazine

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Falls Church, VA 22040

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Make check payable to the Foundation For Amateur Radio

JUNE 1994

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 BARC MARC	2 ANNE ARUNDEL SUMMIT VOA	3 MOBILEERS SEES SHENANDOAH	4 STAFFORD GREEN MTN.
5	6 ADAMS DOS	7 ANTIETAM IBM PG WIRELESS	8 PENTAGON S. PATUX ***FAR***	9 AMRAD MADRAS MT. VERN N. VA. QCWA 150	10 ALEXANDRIA S. MARYLAND VIENNA	11 STAFFORD
12 METROCOMM	13	14 FREDERICK FAUQUIER LEISURE WORLD WOODBRIDGE	15 BARC GODDARD MARC QCWA 137	16 ANNE ARUNDEL QCWA 20	17 CAPITOL CITY STAFFORD	18
19	20	21 ANTIETAM ARLINGTON BRATS	22 LAUREL	23 MADRAS ST. MARY'S	24 CENTRAL MD. VIENNA	25 MOOSE STAFFORD
26	27	28 COLUMBIA	29 QCWA 20	30		

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